

**GREENTEL** ImagineWorld Central Management Software

***User Manual***

For MX100 HSUPA PTZ Network Camera

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## Announcements

Thank you for choosing our product. ImagineWorld is central management software for MX100 HSUPA PTZ Network Camera.

**Please read this manual carefully before installing the software.**

### ***Copyright Announcement***

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# 1. ImagineWorld Introduction

**Real-time video display:** it can display real-time video images of 1-16 channels one page within monitoring network. It can realize single frame, 4-frame, 6-frame, 8-frame, 9-frame, 16-frame partition display. Also it can support polling display.

**Pan/tilt controlling:** within authorized range, the orientation, pitching angle and focus of the camera can be changed by the control of front end pan/tilt and lens

**Remote Video Recording:** video file can be stored in build-in hard disk of front-end video server or storage device with USB interface.

**Local video recording:** video recording can be achieved automatically by setting recording time or by alarm signal received from video server.

**Real-time video image capture:** it is auxiliary function for real-time monitoring. It will save the single frame from dynamic images in BMP format, and it can capture images during monitoring or playback.

**Image capture of video server:** it refers to direct capture by the front-end video server. And its format for capturing is D1 in JPEG format. The image quality will not be affected by network transmission.

**Audio monitoring and Bidirectional talkback:** bi-directional audio transmission can be achieved between client-side and front-end devices. Client-side can monitor the audio of front-end device; meanwhile, client-side can also transmit audio to front-end device and realize real-time bidirectional talkback.

**Alarm action:** client-side will start recording, display electronic map and real-time recording according to settings after receiving alarm signals from front-end device.

**Electronic map display:** electronic map contains name of the scene under monitoring and corresponding front-end devices in it. Click the icons of front-end video devices distributed in the map, and then the real-time image of the devices will be displayed.

**Local playback:** video files of devices at any time in the recording can be

retrieved and replayed.

**Remote playback:** to retrieve, replay and download the recording files in front-end device or other recording files in ImagineWorld Client.

## 2. Install ImagineWorld Software

### 2.1 Operation Enviroment

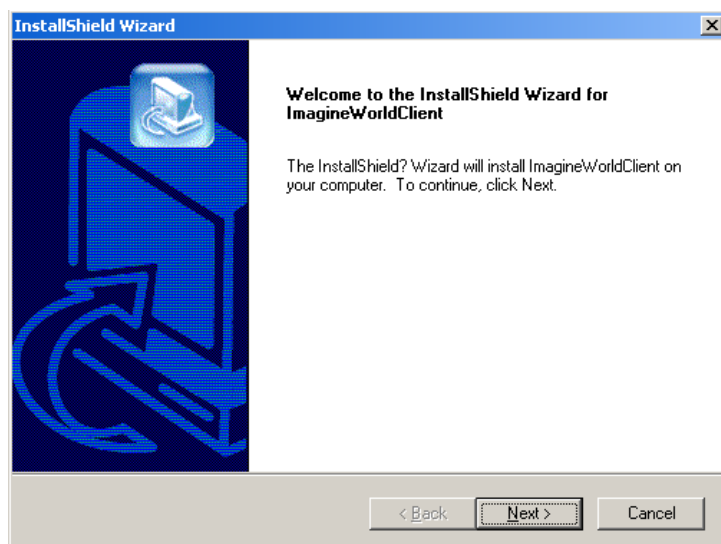
Operating system: Windows 2000server/professional/XP/2003server

Network protocol: TCP/IP

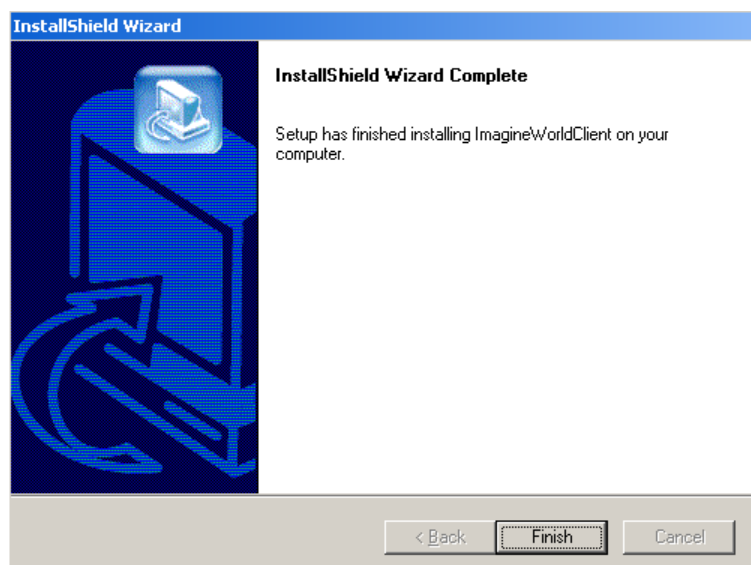
Client-side PC: P4/128MRAM/40GHD/ video card supporting zoom, DirectX7.0 or above.

### 2.2 Installation Guide

Open folders of management software and run (double click left button of the mouse) "**ImagineWorldClientSetup.exe**", and then the following dialogue box will appear:



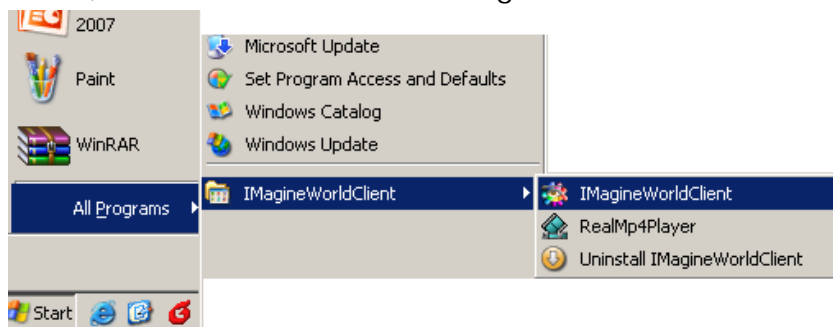
Next, follow the prompt of installation tool until the appearance of the step displayed as following. Click **[Finish]** to complete the installation.



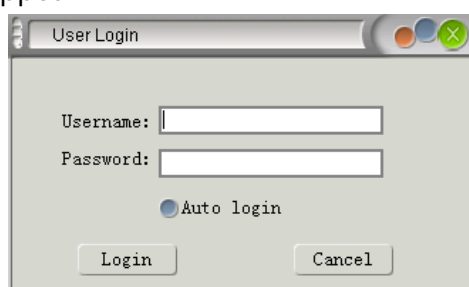
## 3. Start ImagineWorld Client

### 3.1 Start ImagineWorld Client

Select the software in [Start] menu---- program groups-----ImagineWorld Client, which is showed as following:



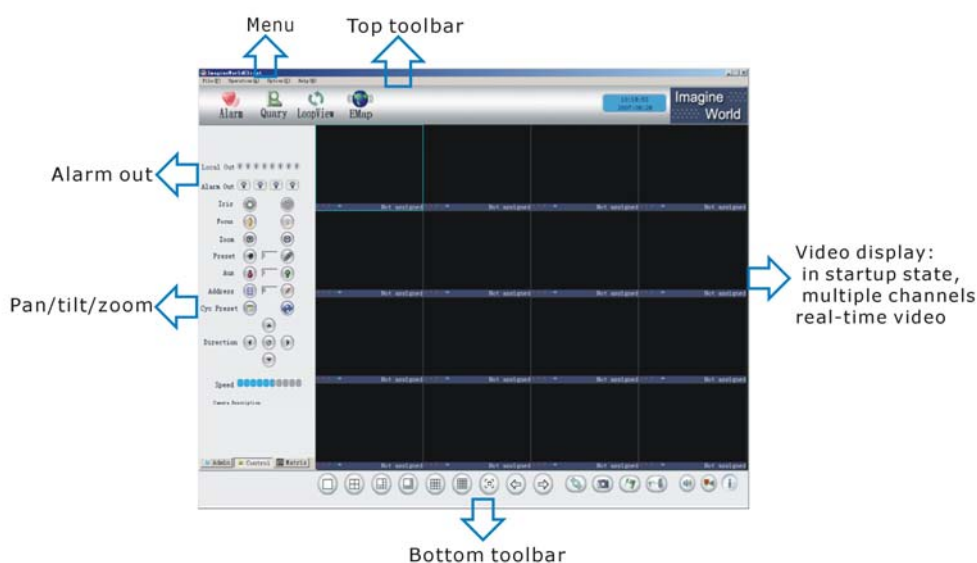
Run ImagineWorld Client by clicking the left button of the mouse, and dialogue box as following will appear:



Username: admin

Password: NULL

If "Automatic Login Next Time" was selected, the [User Affirm] dialogue box won't be displayed next time and will enter the main user interface directly.





## 3.2 Top Toolbar

You can manually choose different shortcuts as following picture:



【 Alarm 】 : After entering, everyday login, alarm, connection, external connection, and abnormal exit log can be viewed in system log.

【Data Enquiry】 :After entering, you can choose one or many video servers and defined period to retrieve recorded video files in local or front-end server or the record file in the server and replay.

【LoopView】 : Images connected to server can be displayed by turns after the configuration of polling monitoring parameters has been configed.

【Electronic Map】 : View and edit electronic map which has been created.

## 3.3 Top Menu Bar

In top menu bar, there are four menu items such as File, Operation, Option, and Help. They include the main functions of setting and manipulation in this software. It's showed as follows:



## 3.4 Toolbar on Left Side

【Local Out】 : It is used to display and control the connection or disconnection of alarm output relay in external alarm box of computer host. If the alarm output relay engaged, then the output indicator would be lighted up. Vice versa, clicking and light this indicator up will activate alarm output.

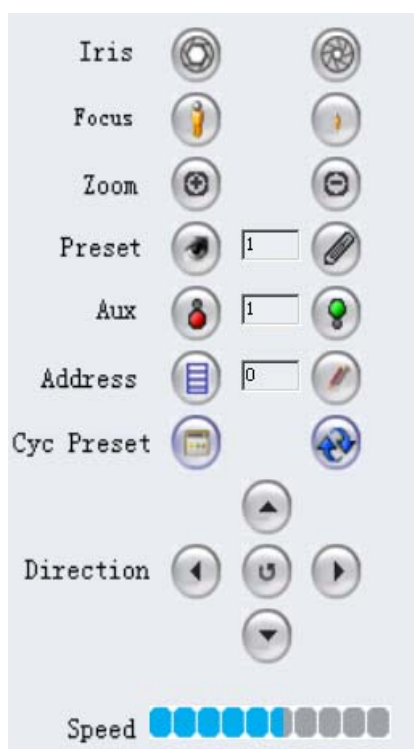
As follows:



【Alarm Out】 : Indicator for alarm output status. The output indicator would light up if alarm output relay engaged. Also you can click the lindicator to light it up; this will also activate the alarm output.

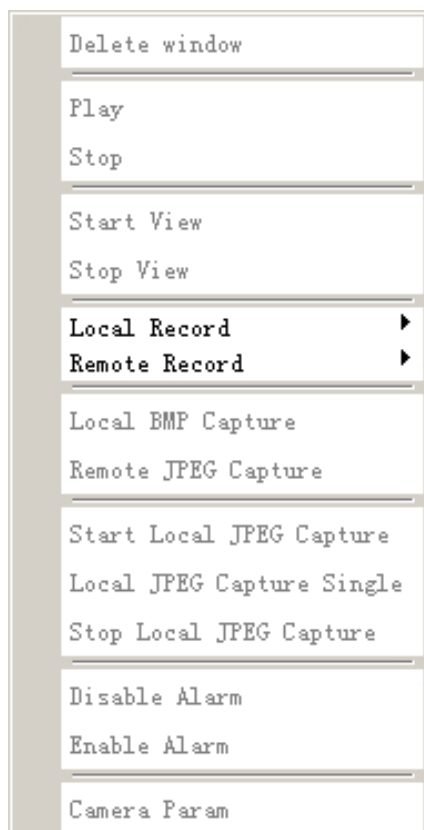


**Pan/tilt control button:**



### 3.5 Video Area

Choose the real-time video of one channel in video display area, and click right button on selected video screen. System pops up a menu as follows:



According to the menu, operations can be done such as start or stop previewing,

connecting or disconnecting camera, local or remote recording, jpg image capture, temporary alarm defense organization or remove, and camera setting, etc.

**Delect Window:** delect the allocation of a certain channel of a certain video server on video window.

**Play or stop the camera:** you can choose whether connect the software to server. If choosing to disconnect with the server, all video and information of the equipment cannot be displayed.

**Start or stop previewing:** you can choose whether display the image of video server connected by this video window. When the preview is stopped, computer still keep connected with video server, no image is transmitted. It saves resource.

**Local recording:** you can choose start or stop local recording.

**Remote recording:** you can choose start or stop remote recording.

**Local BMP capture:** this is a real-time video capture function, which is to save single-frame images from dynamic images in BMP format under appointed folder of local monitoring host. The path of save can be modified in 'Option' menu—'system setup'.

**Remote JPEG capture:** this is a real-time video capture function, which saves single-frame images from dynamic images in JPEG format under appointed folder of built-in hard disk of video server.

**Start local JPEG capture:** this is to start the local JPEG format image capture. Choosing it will activate two options, 'Local JPEG capture single' and 'stop local JPEG capture single'.

**Local JPEG capture single:** this is a real-time video capture function, which saves single-frame images from dynamic images in JPEG format under appointed folder of local monitoring host. The path of save can be modified in 'Option' menu—'system setup'.

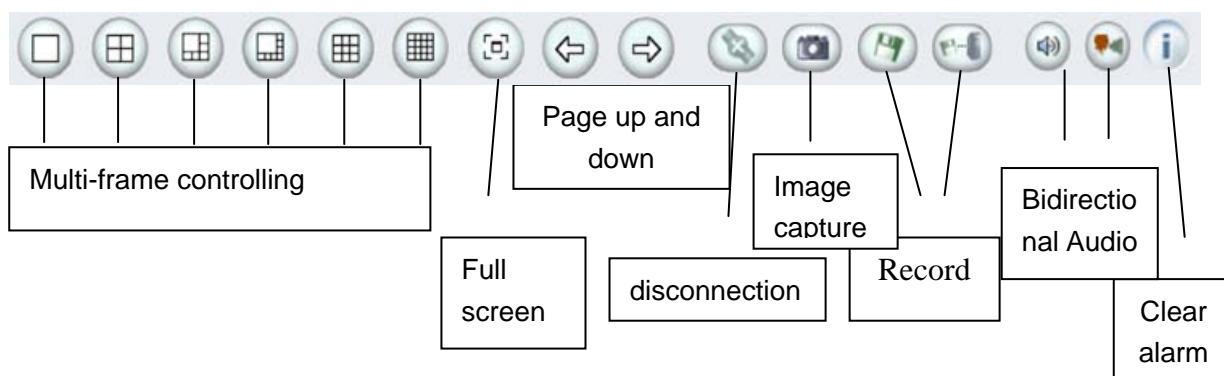
**Stop local JPEG capture:** this is to stop the local JPEG format image capture.

**Disable Alarm:** temporarily cancel the alarm defense setting of a certain channel of a certain video server.

**Enable Alarm:** it's a corresponding setting option to temporary defense remove. It let the alarm defense start.

**Camera Parameter:** all parameters of the camera can be set here. No right to set the parameters of the server if you log in as users instead of administrator. And the dialogue box cannot be opened, either.

### 3.6 Bottom Toolbar



【Multi-frame controlling】 : 1-frame, 4-frame, 6-frame, 8-frame, 9-frame, 16-frame

【Full screen】 : Video image displayed on the screen will be maximized

【Page up and down】 page up and down to monitor more channels

【Disconnection】 : Connection between current channel and server can be cut off

【Image capture】 : Instant image of current channel can be captured

【Record】 : Choose to record files to local computer or remote video server

【Bidirectional Audio】 : Start or stop playing the Bidirectional Audio

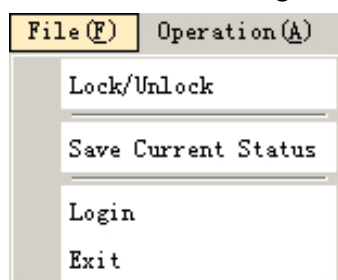
【Clear alarm】 : Clear the alarm notification

## 4.0 Menu and Mouse Operation

ImagineWorld Client is composed of four parts: Files, Operation, Option and Help.

### 4.1 File

By "File" menu of ImagineWorld Client operations like "Lock/Unlock Screen", "Save Current Status", "System Login" and "Exit" can be carried out. Picture showed as following:



**Lock/Unlock screen:** system will require to input user's name and password after clicking this button. No operations can be done, but relative setting like alarm recording, etc. will not be locked. Click again and the status will be unlocked after typing in the user's name and password.

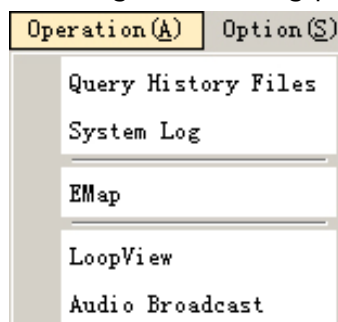
**Save current status:** save current status so that the software will continue to work the same as current status at next starting.

**System login:** log in the client side of ImagineWorld Client. (for initial installation the uses' name is "admin" and the password is NULL)

**Exit:** exit ImagineWorld Client program.

### 4.2 Operation

"Operation" menu is mainly used to enquire historical video files, view system log, edit and use electronic map, and polling monitoring for selected channel. Showing as following picture:




**Query history files:** mainly used to control real-time video and recording files

in center. It can also be achieved by clicking "Quary" button  in the top

toolbar and the function is the same.

**System log:** status information, application program starting and operation information of the server are kept in system log.

It is equal with the function of 'alarm' button  on top Toolbar.

**Electronic map:** view and edit built-in electronic map. It is equal with the

function of 'Emap' button  on top Toolbar.

**Loop view:** images connected to server can be displayed by turns when configuration of polling monitoring parameters is accomplished. It is equal with

the function of 'LoopView' button  on top Toolbar.

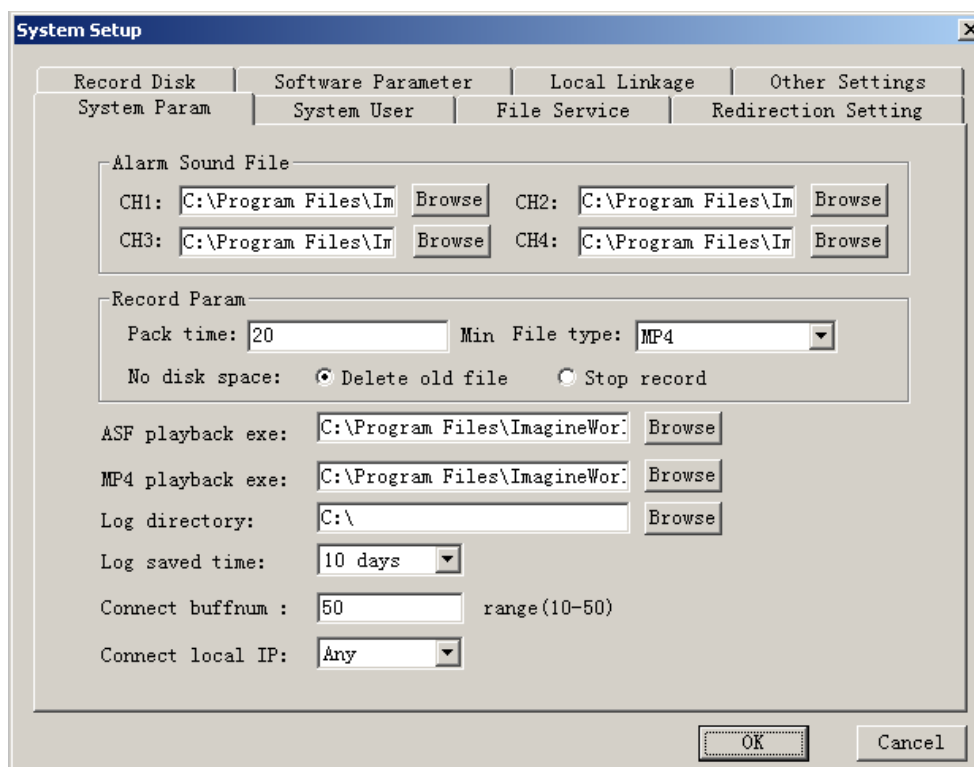
**Audio Broadcast:** edit the list of audio broadcast so that video server sides in the list can receive audio information from the manage host computer side.

## 4.3 Option

"Option" menu is mainly used to realize the functions like setting system parameters, server assignment, setting loop view parameters, editing electronic map, setting the parameters of remote server, local parameter setting, import and export system parameters, etc.



**System setup:** local setting, including system parameter, system user, file service, redirection setting, record disk, software parameter, local linkage, other setting, etc. Showing as following picture:

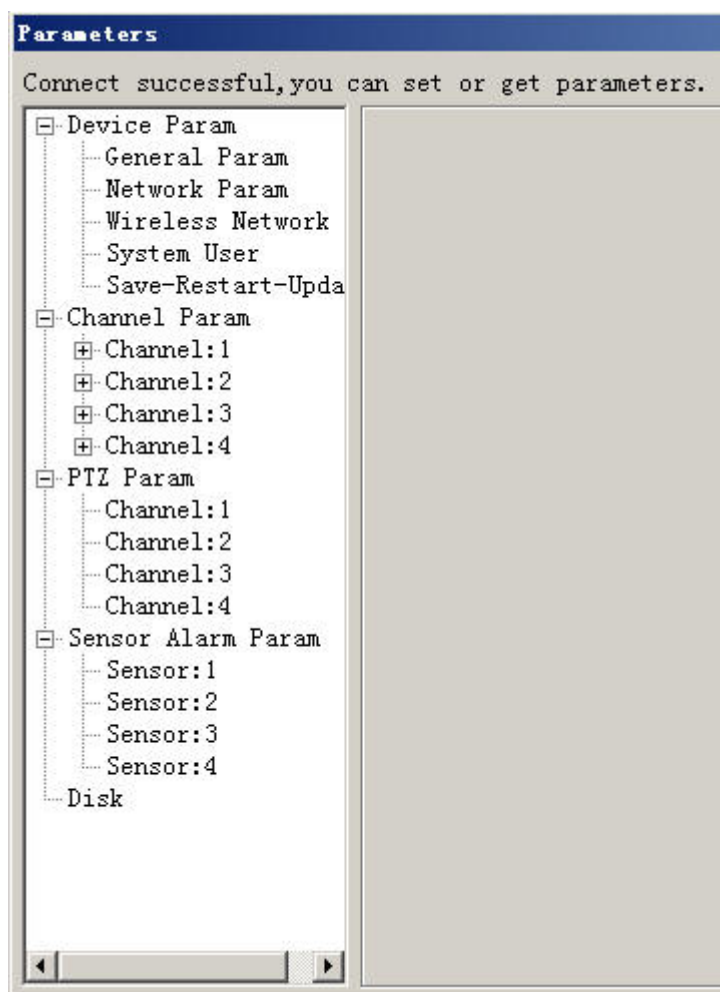


**Server assignment:** add network video servers to be central managed.

**Loop view parameters:** use any custom combination of different cameras and frame displaying modes in server channel list to construct polling page. You can also choose 'auto configuration' to construct polling page.

**Edit electronic map:** to create and edit electronic map.

**Server remote parameters:** It is able to set the device parameter, channel parameter, PTZ parameter, sensor alarm parameter, disk, etc. Disk item can show the list of hard disk status in server and manipulation to format hard disk.



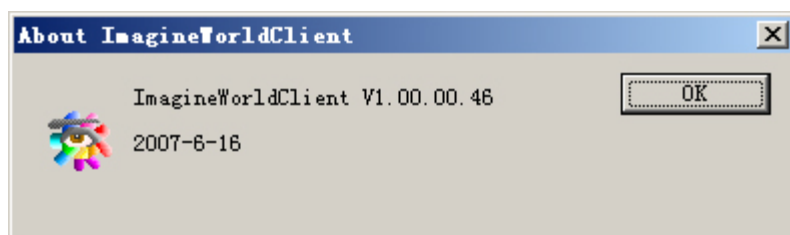
**Server local parameters:** it includes two selecting items, external alarm parameter and external sensor linkage. Mainly sets the alarm function of external alarm device of local server.

**Export parameter:** export system parameter in a certain time into file for storage and backup.

**Import parameter:** import system parameter into system; need to reboot program for going into effect after successful import.

## 4.4 Help

Version and copyright information of ImagineWorld Client displayed by 'help' menu



## 4.5 Mouse Operation



Click left button of mouse on one video frame to choose the video. Double click left button of mouse on one video frame, if there is video in the frame, then the video will be displayed in full screen mode; double click the screen again, it will return to previous displaying mode.

## 5.0 Real-Time Video Display and Control

Real-time video controlling function of ImagineWorld Client can realize the control of displaying images, PTZ and carry out some practical processing on video images.

### 5.1 Real-Time Video Frame Control


Real-time Video Frame Control contains multi-frame switching, polling displaying control, page up/down, devices ordering and main screen display.

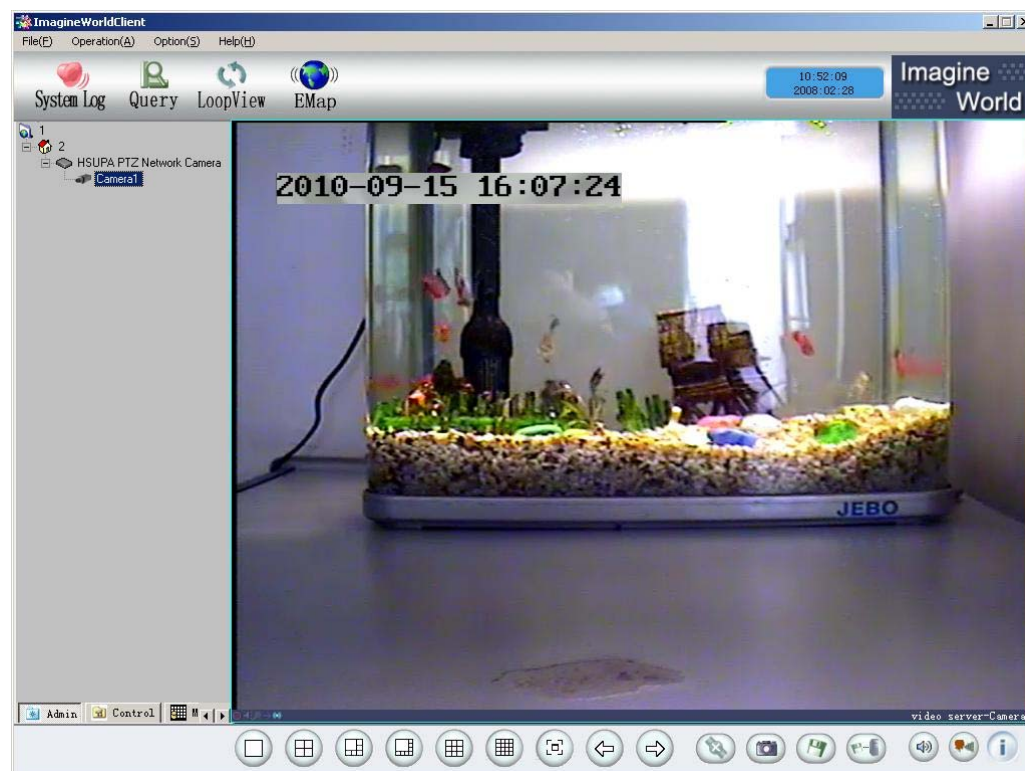
#### 5.1.1 Displaying Mode Switching

ImagineWorld Client supports six displaying modes: single-frame, 4-frame, 6-frame, 8-frame, 9-frame, and 16-frame. 16-frame displaying mode is system default mode. When starting ImagineWorld Client, system will display the video of anterior 16 channels in device list of this client-side in 16-frame mode. Users can switch displaying modes by toolbar at the bottom.



#### 5.1.2 Single Frame Displaying

Click  button in bottom Toolbar and switch to single-frame displaying mode.



In single-frame displaying mode, users can set fluency level of playing and code quality of selected video channel separately.

### 5.1.3 Full Screen Displaying

To display single or multi-frame video at full screen size and hide all menus and



toolbars. Click button in bottom Toolbar and switch to full screen displaying status; double click the frame to exit full screen displaying status.

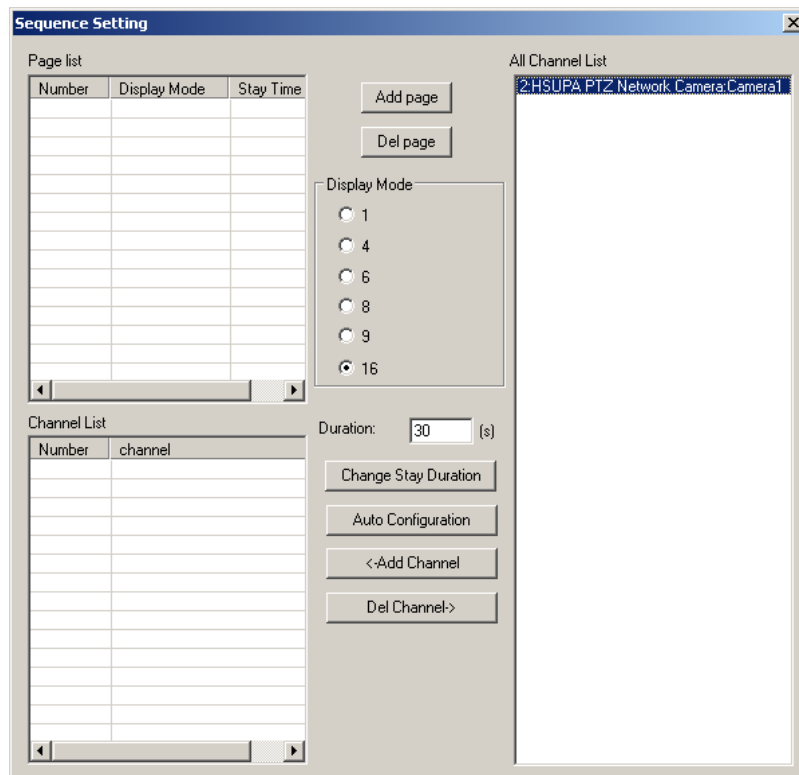
### 5.1.4 LoopView Monitoring


**LoopView monitoring** refers to display the video of all channels in the device list of client-side page by page under current displaying mode (single or multi-frame). It can be achieved only when users group which the client-side belongs to is authorized to carry out "Loopview Monitoring"


If connect with more than one camera, you can choose "**Add Page**". You can choose the partition mode of displaying the pages (e.g.: single-frame, 4-frame, 6-frame, 8-frame, 9-frame, 16-frame displaying mode), and then choose "**Add Channel**" in each page to add camera.

Also you can set displaying mode for polling monitoring in '**Display Mode**' and then click '**Auto Config**' to realize above function.

Polling time for each page can be set separately in '**Stay Time**'. Method: click "**Pages List**", and set time interval for images switching separately in "**Stay Time**", then click '**Change Stay Time**' after setting.



After accomplishing the setting, click  in top toolbar, and then system will start polling displaying for real-time video, and display the videos of all channels in device list of client side page by page according to the number of currently displayed frames. When system enters polling status, all buttons in interface can't be used.

Click '**Loopview**'  in top toolbar again to exit polling displaying status.

## 5.2 Pan/Tilt/Zoom Controlling

The client-side can control the pan/tilt and lens of the device at front-end only when users group of this client-side is authorized with "PTZ Controlling". Authority limits of this client-side will be set in ImagineWorld Client application software.

ImagineWorld Client can carry out following control of PTZ:



Lens UP/DOWN



Lens turn LEFT/RIGHT



Auto rotation ON/OFF



Lens ZOOM UP/DOWN



Focus FAR/NEAR



Iris ZOOM UP/DOWN



Invoke PRESET POINT



Set PRESET POINT



Loop PRESET POINT: Loop PRESET POINT setting and invoke



Auxiliary Equipment: switch ON/OFF, max. Support 8 auxiliary equipments.



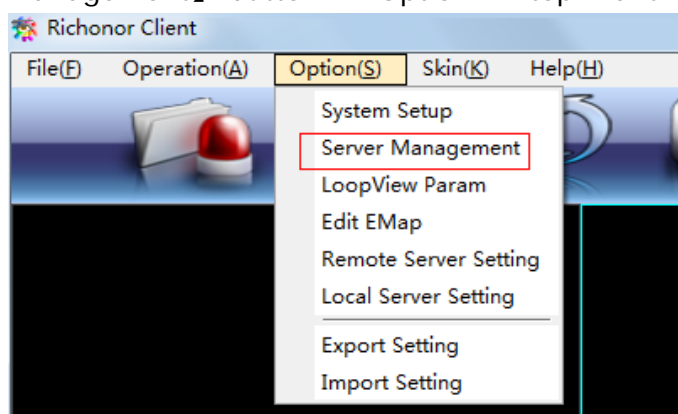
Speed of the movement of the P/T camera FAST/SLOW

## 5.3 Camera Management

The client-side can allocate server only when users group of this client-side is authorized with 'Server Management'.

Before this, if video servers are in the same LAN, please make sure that the IP

net segment of your equipment conforms to video servers. Choose **【Server Management】** button in “Option” in top menu.



Click right button of the mouse in pop-up server assignment window, and choose “Add Projects” in pop-up menu. Choose “Add Groups” for newly built project by clicking right button after entering the name, then click right button for newly built group and choose ‘add server’.



Enter server’s name, address and port number, users name and password in pop-up dialogue-box. If one of them is filled incorrectly, an Error type dialogue box will pop up.

**Server's name:** refers to the name of the video server to be connected. This name is unique identification in the same area, which will serve for dynamic domain name or transmit connection as identification. So it is required to avoid repetition during registration and connection.

**Server address:** IP address or domain name can be used as connecting server address. Pay attention that don't fill the 'http:/' part.

**Server port:** refers to data port of the server, which default is 3000.

**Using DDNS:** DDNS refers that the built-in DDNS client in the video server works together with DDNS client-side provided by developer. When using DDNS function, server's name is identification of searching for this server. If the name of server is incorrectly entered, it will return to error information of unable to find server.

**User name and password:** default user name and password both is 888888. After entering above information correctly, click ok button to exit setting interface, and the system will connect assigned server automatically and display video.

You can also click "Search" button in the bottom right-hand corner, and window as following will pop up:

Server param

Server Name: HSUPA PTZ Network Camera

Server Addr: 192.168.1.19

Data Port: 3000

Use DDNS: ☐

Username: 888888

Password: .....

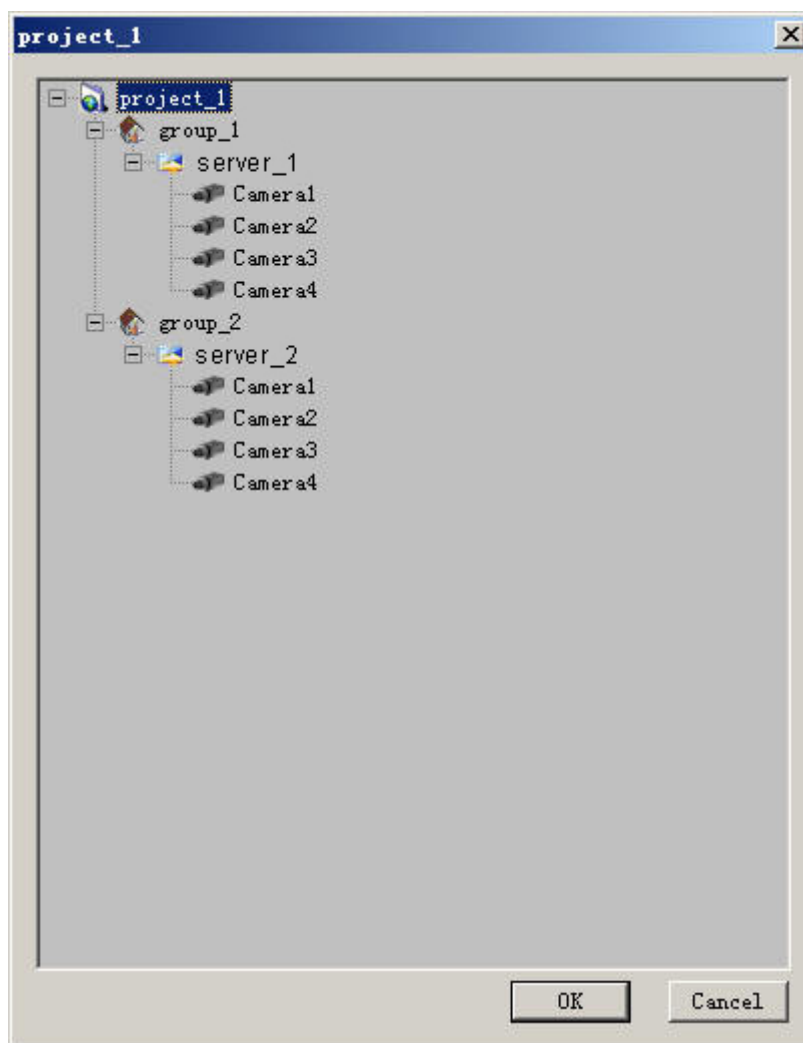
The name of sensor1: sensor1

Servername	IP	MAC	Port	Cha...
video server	192.168.1.19	02-F2-00-00-42-7F	3000	1

OK Cancel Search>> Research Add

Double click IP address to choose and click ok to finish.

After this, the interface will display as follows:



If you want to delete a certain assignment, which has been set, click right button on the target video server in server allocation dialogue box to generate a pop-up menu. Choose 'delete server' in the pop-up menu.

## 6.0 Local Retrieval and Record Playback


Within authorization, the client can retrieve and play back the video files in the server. The retrieval window is showed as following:

Retrieval and recording playback functions contains: MP4 format recording file retrieval and playback, ASF format recording file retrieval and playback, JPEG format recording file retrieval, BMP format file retrieval, server recording playback, local recording playback, etc.

### 6.1 Record Retrieval

To retrieve video recording files stored in server or local server according to recording time of selected equipment and recording type, it is easy to obtain video recording files correctly. Equipments under retrieving must be in the equipment list at client side, otherwise they cannot be retrieved. The client-side can carry out retrieval only when the users group that this client-side belongs is authorized with "Video Recording Retrieval".



Click  under top menu, and system will pop up window of Video Recording Retrieval.

Choose recording file which you want to enquire according to necessity in


☒ Local query ☐ Frontend server query ☐ Server query

**Local retrieval:** to retrieve video files stored in local host computer

**Front-end server retrieval:** to retrieve video files stored in the video server.


It is required to select and input the name of video server.




- 1) Set wanted date and time zone for retrieval, and only the video recording to be retrieved within selected time zone can be found out; default is entire time zone.
- 2) Choose equipment channel under retrieval from the pull-down box; default is all channels
- 3) Choose wanted file type (MP4 File/ASP File/JPEG File/BMP File) for retrieval; default is MP4 format video file.
- 4) Click .

If there is recording information meeting those conditions, they will appear in the video information list under window, as follows:

[illegible]

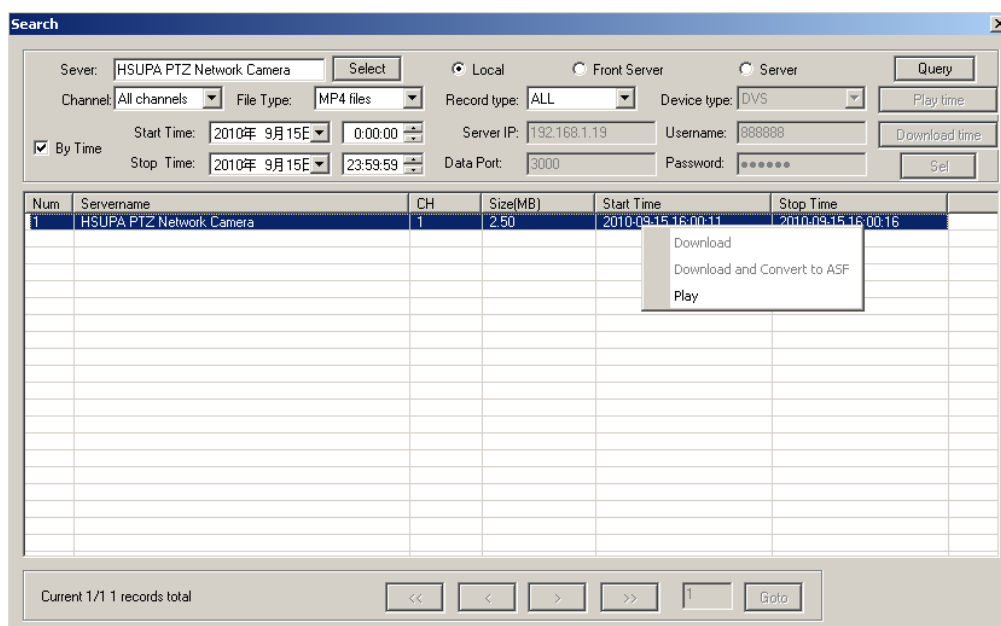
When the quantity of recording information is more than 20 pieces, you can view more recording information by page up/down buttons 

< > >>

Click  in this operating interface, the system will return to main operating interface and save the parameters automatically.

## 6.2 File Download

Download operation can be run to the file retrieved. In the enquiring result list, click right button on the file wanted to be downloaded. Choose 'download' in the pop-up menu, and it is done. If retrieved recording file is MP4 format, you can choose 'download and transfer to ASF' item in the menu, it is downloaded and save as ASF format file



### 6.3 Record Playback

Choose recording files that you want to played back, double click the recording information and a preset video player will pop up, by which you can see the video.

- The recording will skip forward to any position by dragging the setting lever at low part of the video player;
- You can adjust playing speed by dragging the speed setting lever;
- Displaying sizes (50%/100%/150%/200%/full screen) for video files can be set in the top menu of the player. Some formats may not support to switch the displaying size. The size of buffer area can be set, to assure fluently playing. Also it possesses auxiliary function of changing files from MP4 format into ASF format.



## 7.0 Alarm Action

Alarm system will be set by ImagineWorld Client application software. Client will receive the alarm signals sent by application software and carry out corresponding actions on the alarm.

Reactions on the alarm includes recording, capturing and triggering alarm output for triggering channels according to the preset parameters. And you can choose whether upload these files to central server directly.

## 8.0 Audio Monitoring and Talkback

Within authorization limitation the client can monitor the audio of front-end equipment and intercommunicate with it as well. Working mode is full duplex.



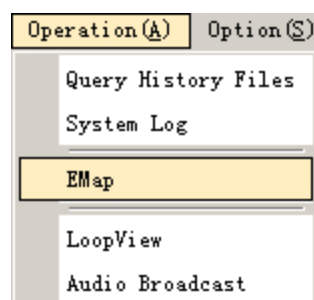
The monitoring function at this client side is controlled by equipment voice switch at bottom Toolbar. Click the switch to connect or disconnect the audio playing of front-end equipment.

The intercommunicating function at this client side is controlled by equipment intercommunication switch at bottom Toolbar. Click the switch to connect or disconnect the intercommunication with front-end equipment.

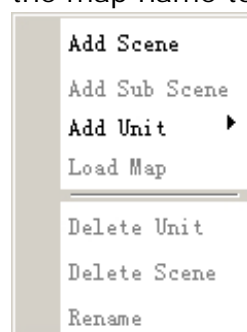
## 9.0 Electronic Map

### 9.1 Create Electronic Map

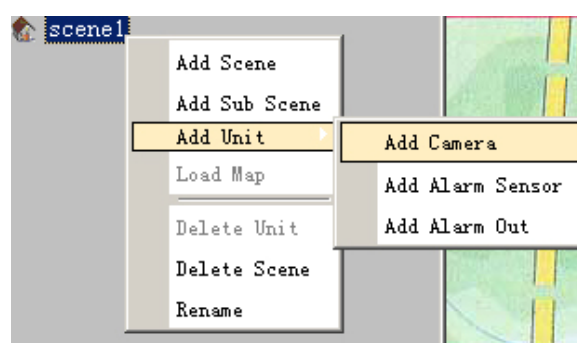
Firstly it is necessary to build up plane map by drawing tools outside the system, and the format should be bmp. Then choose to enter 'Edit Electronic Map' through 'Setting' item in top menu.



Click right button of the mouse on the left frame; choose "Add Scene" in pop-up menu and then choose "Load Map" to finish initial building for electronic map. The name of built map will be displayed in the window of server list. Double click the map name to open or switch electronic map.



Click right button on newly built scene, choose "Add Equipment" in pop-up menu, then you can choose to add camera, alarm probe or alarm output.



After selecting you can find camera icon on the upper left corner of the map. Click left button of the mouse and drag it to monitoring position, then close.



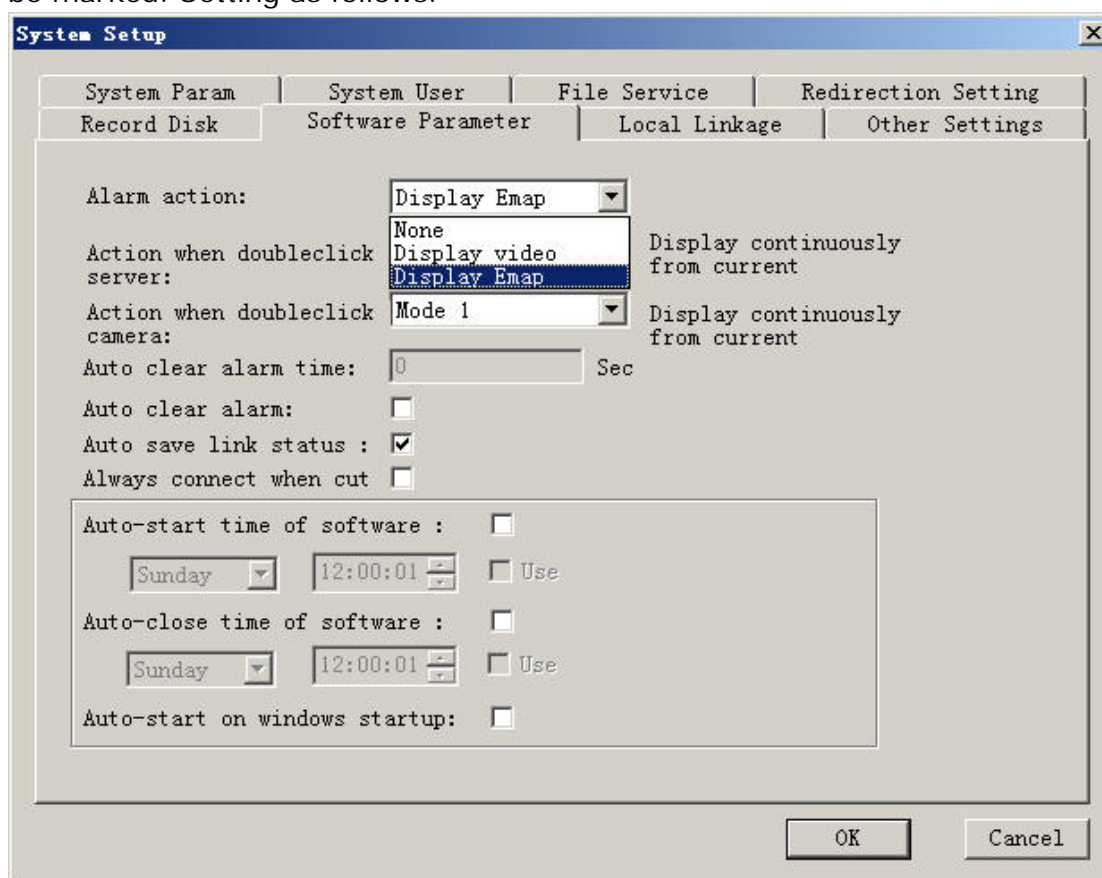


- 30 -

to the client side.

## 9.2 Alarm Linkage and Electronic Map

After successful creation of electronic map, return to main interface and choose tab 'software setting' in 'system parameter' item in 'setting' menu. Choose 'pop up electronic map' item in list box 'alarm action' and click 'confirm' button to save this setting. At this time, electronic map and video recording of alarm site will pop up when alarm happens. And the location of alarm monitoring site will be marked. Setting as follows:



## 10.0 Client-side System Parameter Setting

System setting includes five items: system parameter, system user, file service, transmission setting, recording HD setting, software setting, local linkage, and other settings.

### 10.1 System Parameter

Set alarm voice for different channels, files packing time, play program for recording file, log saving directory and saving time, etc.

The screenshot shows the 'System Setup' dialog box with the 'Software Parameter' tab selected. The 'System Param' sub-tab is active. The 'Alarm Sound File' section contains four channels (CH1, CH2, CH3, CH4) with text boxes showing 'C:\Program Files\Im' and 'Browse' buttons. The 'Record Param' section includes 'Pack time' (20), 'Min File type' (MP4), and 'No disk space' options (Delete old file, Stop record). The bottom section contains playback executables for ASF and MP4 (both 'C:\Program Files\ImagineWor'), log directory ('C:\'), log saved time (10 days), connect buffnum (50), and connect local IP (Any). 'OK' and 'Cancel' buttons are at the bottom right.

Record Disk	Software Parameter	Local Linkage	Other Settings
System Param	System User	File Service	Redirection Setting

Alarm Sound File

CH1: C:\Program Files\Im Browse CH2: C:\Program Files\Im Browse  
CH3: C:\Program Files\Im Browse CH4: C:\Program Files\Im Browse

Record Param

Pack time: 20 Min File type: MP4  
No disk space: ☒ Delete old file ☐ Stop record

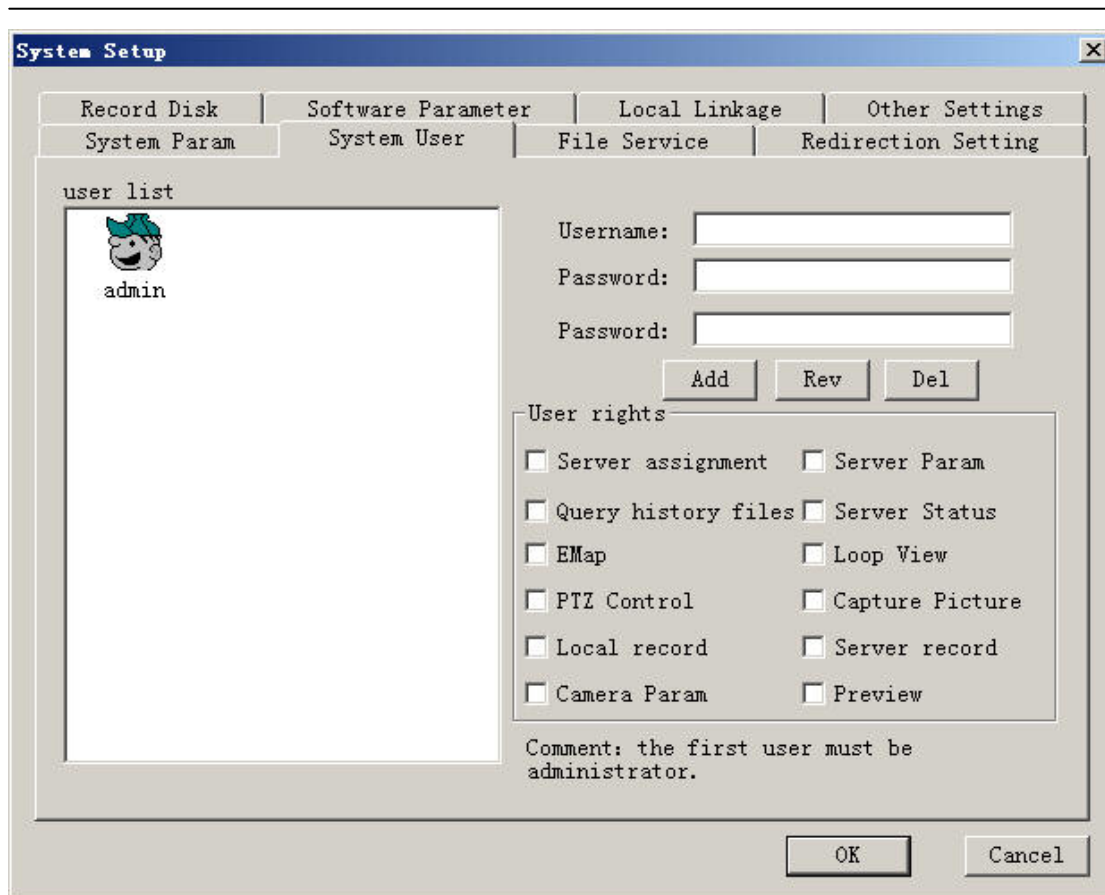
ASF playback exe: C:\Program Files\ImagineWor Browse  
MP4 playback exe: C:\Program Files\ImagineWor Browse  
Log directory: C:\ Browse  
Log saved time: 10 days  
Connect buffnum : 50 range (10-50)  
Connect local IP: Any

OK Cancel

### 10.2 System User

You can add and modify the user's name and the password; also you can set authorization limit for different users.



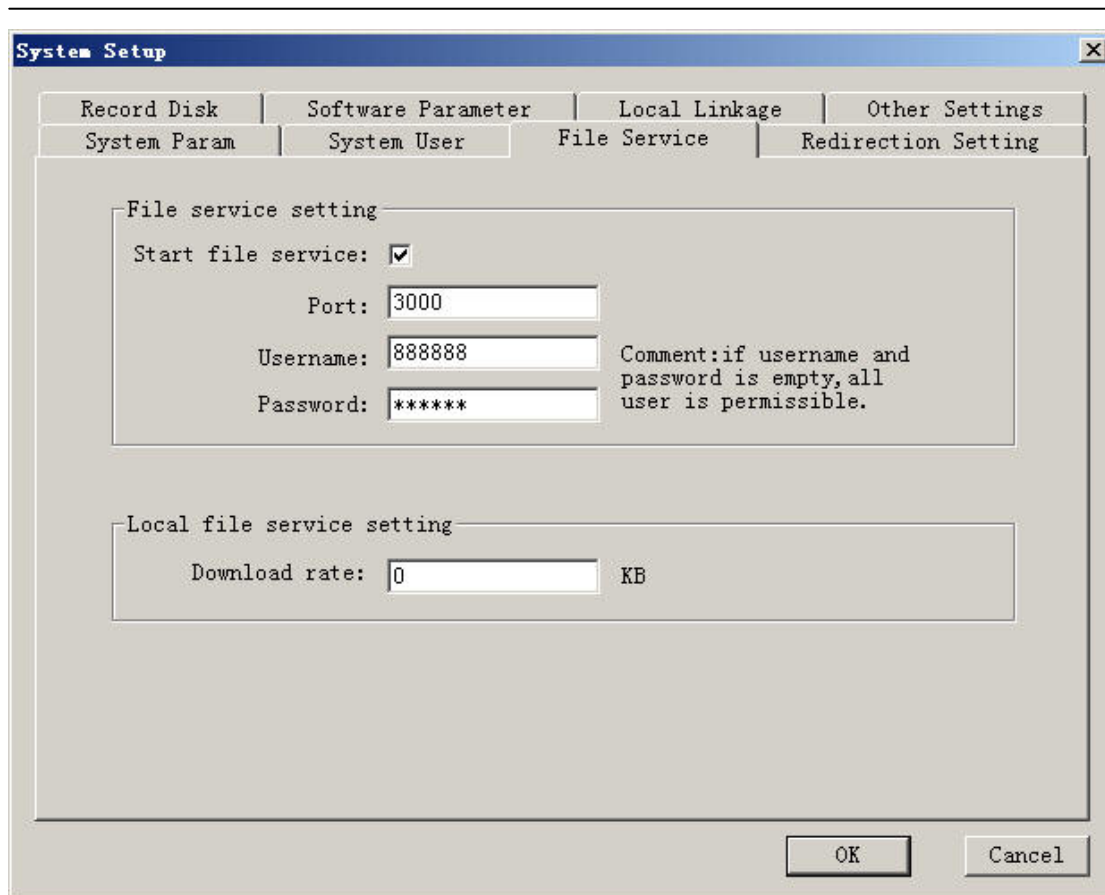


### 10.3 File Service

Turn on the access to server from remote host.

After turning on the access function of data retrieval can be realized only when service port, user's name and password of the host computer are consistent with those setting of remote host computer. The system default is: the status of this service is on. Default value is: server port: 3000, user's name: 888888, password: 888888.

File download speed limits the download speed of remote host, which manipulate file download from accessed server. The default value is 0; it means no limit of download speed.



## 10.4 Setting Transmission Server

Video server management software has data transmission function. If you want to activate this function for the video signals of a channel, select option of **[Start Transmission Service]** (under which transmission server parameters all refer to address parameters of the server that this management software belongs to). Number of channel users refers to the maximum of users for connection, and number of system users refers to the total amount of users that connect with this server. After setting these parameter, the manage software has to be closed and they will come into effect after restarting the software. It is necessary to note that the setting of local ports and multi-switch address should not conflict with other program. The picture is showing as following:

The 'System Setup' dialog box is shown with the 'Redirection Setting' tab selected. The 'Start redirection' checkbox is unchecked. The 'Multi addr' field contains '234.5.6.7', 'Multi port' is '6000', 'Local addr' is 'Any', and 'Local port' is '3000'. The 'Channel User number' is '50', 'System user number' is '100', and 'Buff number' is '50'. On the right, there are three user configuration sections: 'Administrator' (Username: 888888, Password: \*\*\*\*\*), 'High operator' (Username: 123456, Password: \*\*\*\*\*), and 'Operator' (Username: 654321, Password: \*\*\*\*\*). A comment at the bottom states: 'Comment: you must to restart this system to validate after change this settings.' The 'OK' and 'Cancel' buttons are at the bottom right.

After finishing the setting of the transmission service end, other equipment can be switched on to connect with the transmission server.

## 10.5 Video Hard Disk Management

Type, capacity and total spare space of local recording HD can be displayed here. Users can also choose where to save the video recording independently.

The 'System Setup' dialog box is shown with the 'Record Disk' tab selected. It displays a table of disk information. The table has five columns: 'Disk', 'Size(M)', 'Free siz...', 'Reserved...', and 'Directory'. The rows represent disks C: through I:.

Disk	Size(M)	Free siz...	Reserved...	Directory
<input type="checkbox"/> C:	9991	2208	500	
<input checked="" type="checkbox"/> D:	19992	6033	500	
<input type="checkbox"/> E:	19992	8023	500	
<input type="checkbox"/> F:	26288	14130	500	
<input type="checkbox"/> G:	24995	890	500	
<input type="checkbox"/> H:	24995	17493	500	
<input type="checkbox"/> I:	26288	8504	500	

The 'OK' and 'Cancel' buttons are at the bottom right.

## 10.6 Software Setting

This setting mainly works on the working mode and status of software.

The screenshot shows the 'System Setup' dialog box with the 'Software Parameter' tab selected. The 'Record Disk' sub-tab is also active. The settings are as follows:

- Alarm action:** Display Emap (dropdown menu)
- Action when doubleclick server:** Mode 1 (dropdown menu) with description: Display continuously from current
- Action when doubleclick camera:** Mode 1 (dropdown menu) with description: Display continuously from current
- Auto clear alarm time:** 0 (text box) Sec
- Auto clear alarm:** ☐
- Auto save link status :** ☒
- Always connect when cut** ☐
- Auto-start time of software :** ☐
  - Sunday (dropdown), 12:00:01 (time picker), ☐ Use
- Auto-close time of software :** ☐
  - Sunday (dropdown), 12:00:01 (time picker), ☐ Use
- Auto-start on windows startup:** ☐

Buttons: OK, Cancel

**Alarm action:** the awakening mode when cameras in video server list generate alarm signal, includes three options as no action, pop up video, pop up electronic map. Hereinto, the video and according electronic map of alarm site will pop up when you choose option 'pop up electronic map';

**Action when double click server:** have three modes to choose.

**Action when double click camera:** have three modes to choose.

**Auto alarm cleanup:** clean up alarm by system after alarm happens.

Time of auto alarm cleanup: system clean up alarm at the setting time after alarm happens.

**Auto save link status:** save the current connection status between client-side software and video server. Client-side software will read the last saving connection status when restart next time.

**Auto reconnection after abnormally disconnection:** when video server connected by client-side software abnormally disconnected, system will automatically require connecting again, even without manual operation.

## 10.7 Local Linkage

Mainly set the communication between host and external serial-port device. Pay attention when you set. The choice of serial ports should have no confliction.

The 'System Setup' dialog box features a tabbed interface with the following tabs: System Param, System User, File Service, Redirection Setting, Record Disk, Software Parameter, Local Linkage, and Other Settings. The 'Local Linkage' tab is currently selected, displaying the 'Local Link' section. This section includes a 'Serial Port' dropdown menu set to 'COM1', an 'Address' text box containing '0', a 'Protocol' text box, a 'Control File' text box, and two buttons: 'Select' and 'Update File'. Below this, the 'Keyboard Serial Port' section contains 'Serial Port' (COM1), 'Baud Rate' (9600), 'Data Bit' (8), 'Stop Bit' (1), 'Parity Bit' (No), and 'Protocol' (PELCO D/I). The 'Alarm Serial Port' section has 'Serial Port' (COM1), 'Baud Rate' (9600), 'Data Bit' (8), and 'Stop Bit' (1). At the bottom right are 'OK' and 'Cancel' buttons.

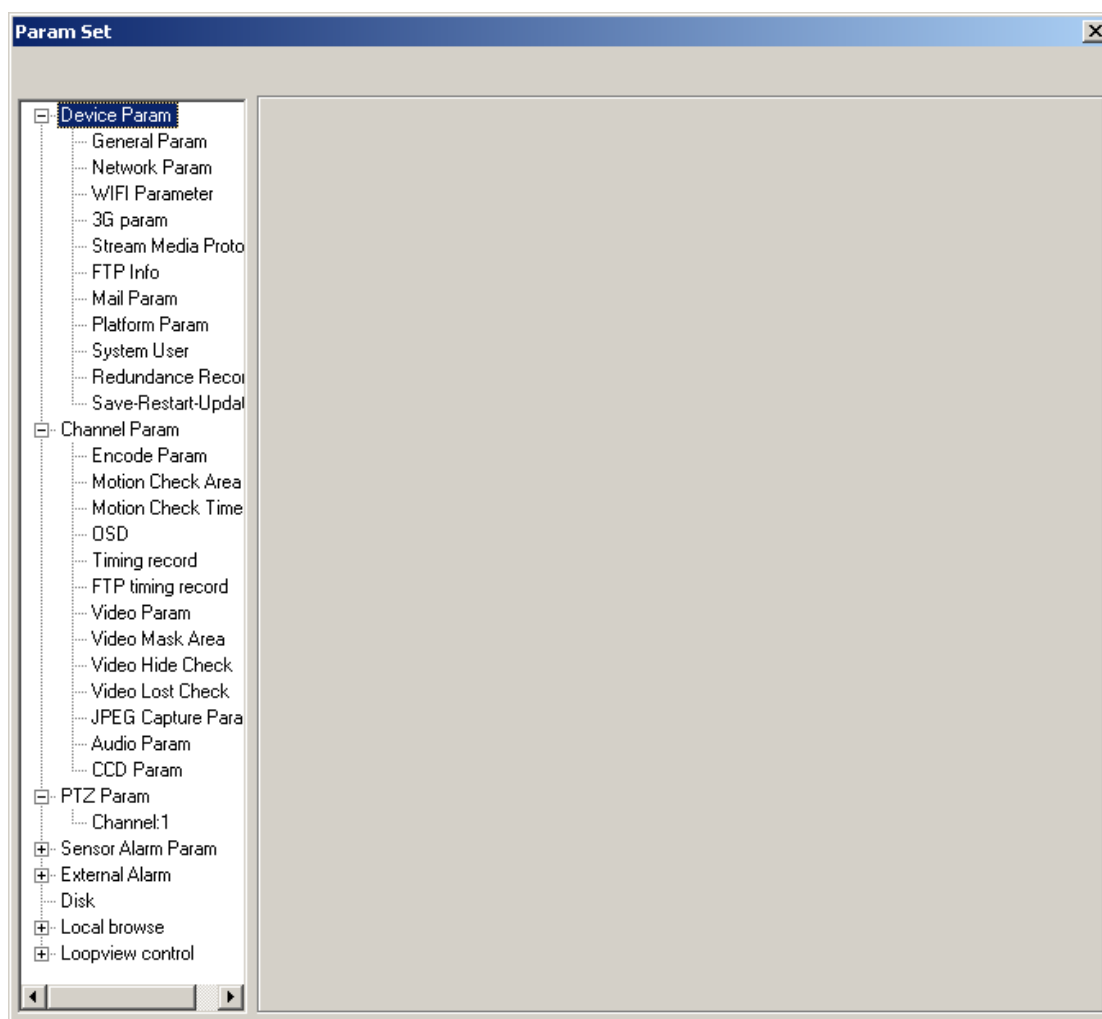
## 10.8 Other Setting

When software is running, you can invoke other programs without leaving monitoring screen simultaneously.

The 'System Setup' dialog box is shown with the 'Other Settings' tab selected. The 'Startup special Application' section contains an 'Application Path' text box, a 'Browse' button, and a 'Run' button. The 'OK' and 'Cancel' buttons are located at the bottom right.

## 11.0 Configuring Parameter Setting

It mainly contains following functions: equipment network setting, channel parameter setting, PTZ parameter setting, equipment HD information, multi-playing, etc. Multi-playing is an optimum resolution for large amount of users visiting one video server at the same time. But please note: some router doesn't support or unlock this function if you would like to realize this function on WAN. See the picture as following:



### 11.1 Equipment Parameter Setting

#### 11.1.1 Basic Parameter

The basic parameters of server consist of version info, mode selection, setting reboot time, and language selection, etc. Hereinto, language selection is the selection of language about overlapping date and time on the real-time image. It has Chinese and English options.

Param Set

Get parameters successful.

Device Param

General Param

Network Param

WIFI Parameter

3G param

Stream Media Proto

FTP Info

Mail Param

Platform Param

System User

Redundance Recor

Save-Restart-Updat

Channel Param

Encode Param

Motion Check Area

Motion Check Time

OSD

Timing record

FTP timing record

Video Param

Video Mask Area

Video Hide Check

Video Lost Check

JPEG Capture Para

Audio Param

CCD Param

PTZ Param

Channel:1

Sensor Alarm Param

External Alarm

Disk

Local browse

Loopview control

Basic Param

Server name: video server

Timing reset: ☐ [v] 1:05:00

Video standard: PAL

Serial number: 8000E10020129950

Language: ENGLISH

Device ID: [ ] (01-99)

Video Output: [v]

Version: V06.00.10.04

Version date: 2010-06-09

Link Param

Device ID: [ ]

Max connection: 1

FTP Username: [ ]

FTP Password: [ ]

Link type: [v]

Device Model: [ ]

Sip port: 5000

Network Param

Net URL: [ ]

Manager: [ ]

Password: [ ]

Relink URL: [ ]

Relink user: [ ]

Relink pass: [ ]

Keyboard Param

Baud rate: 4800

Data bit: 8

Check bit: No check

Stop bit: 2

Get

Set

## 11.1.2 Network Parameter

The network parameters of video server or IP camera can be modified. Note that server have to reboot after modification of network parameters so that they come to effect.

**Param Set**

Get parameters successful.

- [-] Device Param
  - General Param
  - Network Param**
  - WiFi Parameter
  - 3G param
  - Stream Media Proto
  - FTP Info
  - Mail Param
  - Platform Param
  - System User
  - Redundance Reco
  - Save-Restart-Updat
- [-] Channel Param
  - Encode Param
  - Motion Check Area
  - Motion Check Time
  - OSD
  - Timing record
  - FTP timing record
  - Video Param
  - Video Mask Area
  - Video Hide Check
  - Video Lost Check
  - JPEG Capture Para
  - Audio Param
  - CCD Param
- [-] PTZ Param
  - Channel:1
- [+] Sensor Alarm Param
- [+] External Alarm
  - Disk
- [+] Local browse
- [+] Loopview control

IP address: 192.168.1.19

Netmask: 255.255.255.0

DNS address: 0.0.0.0

Gateway: 192.168.1.1

Multicast address: 235.1.1.1

Multicast port: 6500

Local port: 3000

WEB port: 80

MAC: 02-F2-00-00-42-7F

PPPOE: Close

PPPOE username:

PPPOE password:

DHCP: Close

UPNP: Start

Start DDNS: Close

DDNS server address:

DDNS server port: 8080

DDNS map port: 80

DDNS update time: 60

DDNS provider: Company(new)

DDNS username:

DDNS password:

DDNS domain name:

Alarm host address: 0.0.0.0

Alarm host port: 8000

Remote host address: 0.0.0.0

Remote host port: 3004

Get Set

### 11.1.3 Wireless Network

This setting is only useful to wireless IP camera, which has wireless function. User can choose to use CDMA network or 802.11g wireless network.



The screenshot shows a web-based configuration interface titled "Param Set". At the top, a status message reads "Read 3G param OK Read 3G status successful". On the left, a tree view lists various parameter categories: Device Param (General Param, Network Param, WIFI Parameter, 3G param, Stream Media Proto, FTP Info, Mail Param, Platform Param, System User, Redundance Reco, Save-Restart-Updat), Channel Param (Encode Param, Motion Check Area, Motion Check Time, OSD, Timing record, FTP timing record, Video Param, Video Mask Area, Video Hide Check, Video Lost Check, JPEG Capture Para, Audio Param, CCD Param), PTZ Param (Channel:1), Sensor Alarm Param, External Alarm, Disk, Local browse, and Loopview control. The "3G param" category is selected. The main area displays configuration fields for 3G: 3GMode (WCDMA), Username (empty), Password (empty), Dialing (\*99#), Status (Disconnected), and IP Address (0.0.0.0). At the bottom right are "Get" and "Set" buttons.

Param Set

Read 3G param OK Read 3G status successful

- [-] Device Param
  - General Param
  - Network Param
  - WIFI Parameter
  - 3G param**
  - Stream Media Proto
  - FTP Info
  - Mail Param
  - Platform Param
  - System User
  - Redundance Reco
  - Save-Restart-Updat
- [-] Channel Param
  - Encode Param
  - Motion Check Area
  - Motion Check Time
  - OSD
  - Timing record
  - FTP timing record
  - Video Param
  - Video Mask Area
  - Video Hide Check
  - Video Lost Check
  - JPEG Capture Para
  - Audio Param
  - CCD Param
- [-] PTZ Param
  - Channel:1
- [+] Sensor Alarm Param
- [+] External Alarm
  - Disk
- [+] Local browse
- [+] Loopview control

3GMode: WCDMA

Username:

Password:

Dialing: \*99#

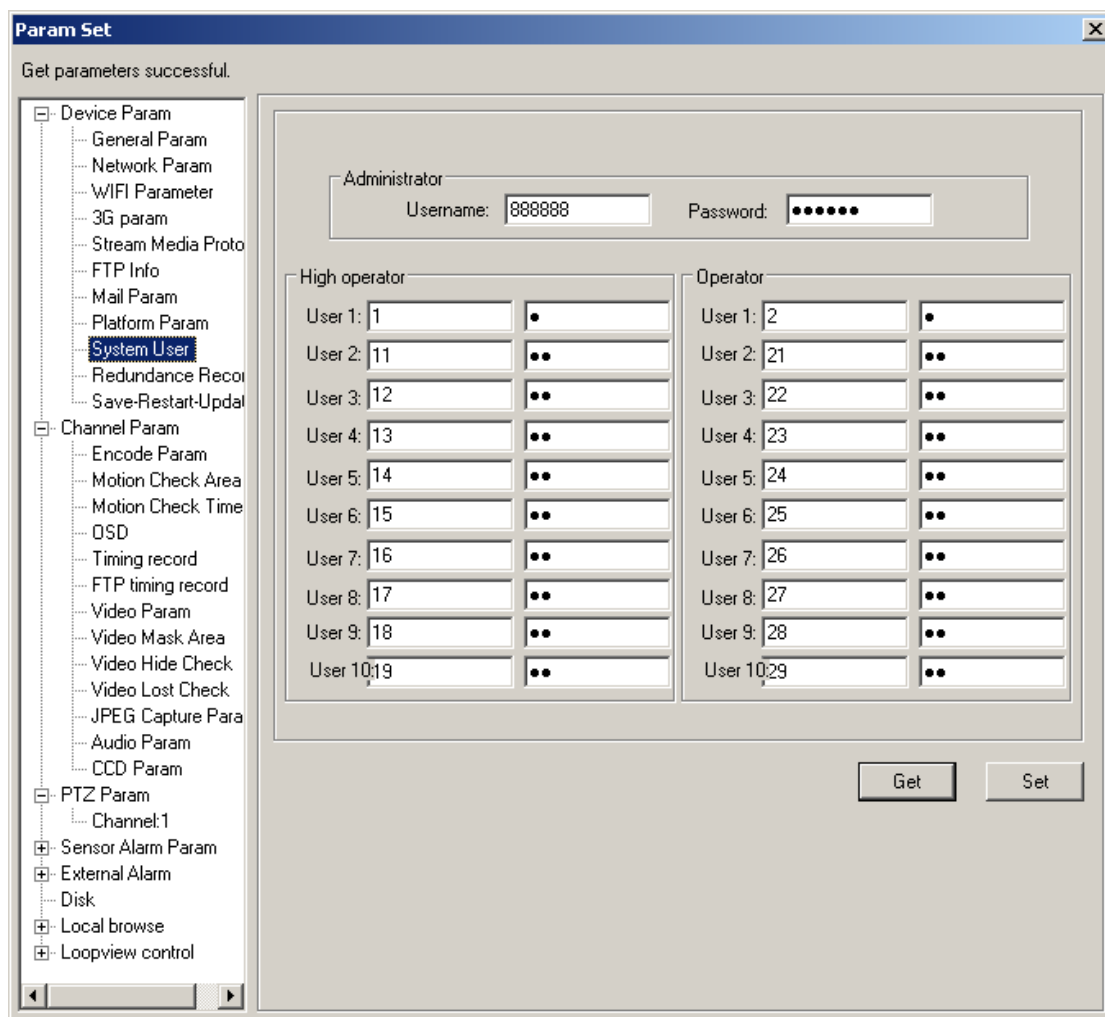
Status: Disconnected

IP Address: 0.0.0.0

Get Set

#### 11.1.4 System User

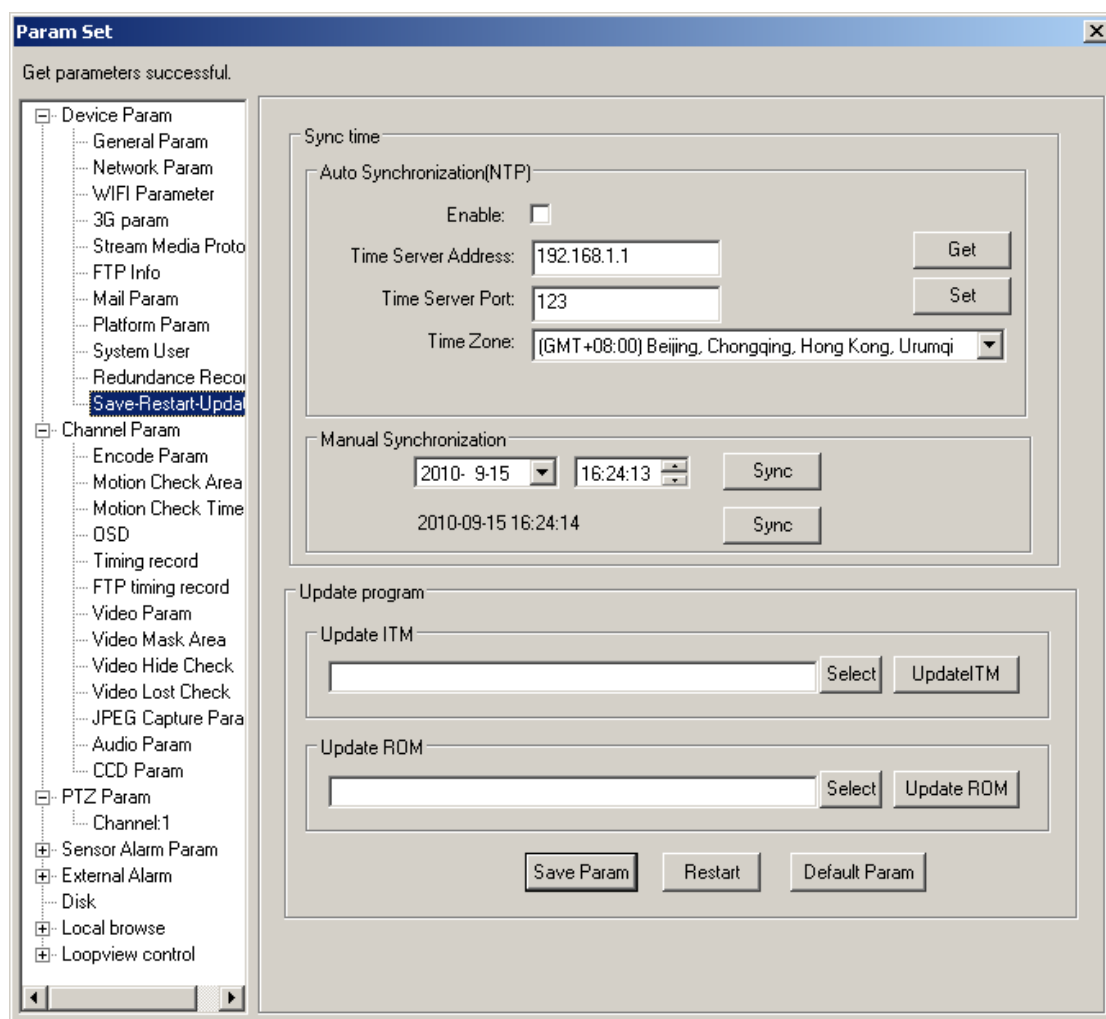
More than one users' Username and password can be set.



### 11.1.5 Save-Reboot-Update

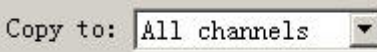
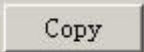
The time of network video server and client-side host can be set synchronously. The function of updating program is to update files with extension name '.itm'

into video server. Click **Default Param** to restore the default value of video server parameters from factory.



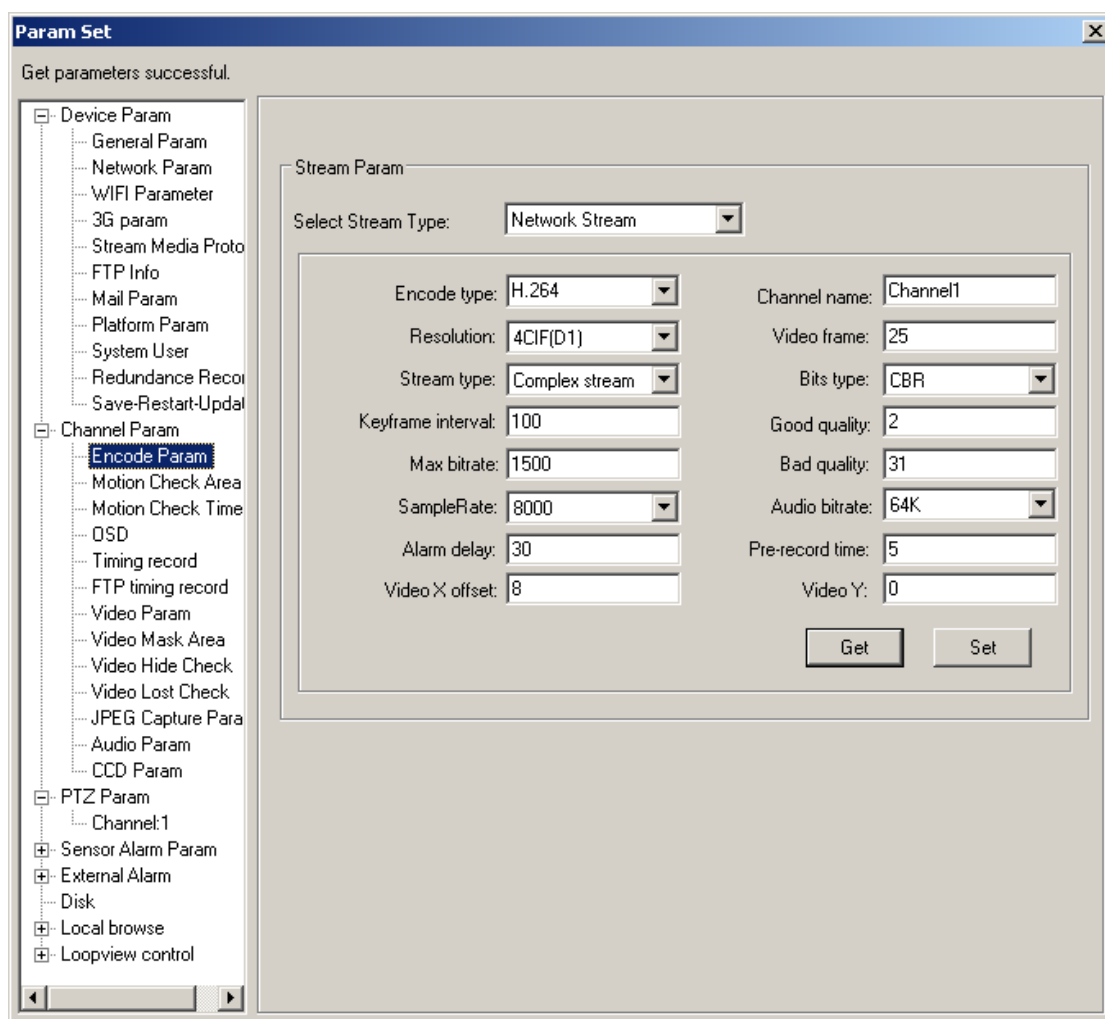
## 11.2 Channel Parameter Setting

The parameters of every channel can be set independently. For parameters of every channel, there are settings as follows. Here just an example of one channel.

Parameter setting option   at right side is a shortcut for setting other channels, which has the same parameters as current channel. It is also applicable in setting of PTZ and alarm probe parameters. In following text, we won't explain it again.

### 11.2.1 Compression Parameter

Video server use dual stream technology, namely, the compressing parameters of network transmission and remote recording stream can be set separately. See picture as follows:



**Resolution:** it refers to the initial size of zoom image. It is divided into three format: CIF(352×288), 2CIF (704×288) and 4CIF (704×576) . 2CIF is also called HalfD1, and 4CIF is also called FullD1. Our products can support all of the three formats while some only support CIF format, so please distinguish it out from technical parameters of relative products. Meanwhile, the modification on resolution ratio will come into effect only after saving the configuration and restarting video server.

**Stream type:** it is divided into combined (Video & Audio) stream and video stream. Combined stream refers to combined code of audio and video. Under this option both audio and video will be transmitted; if choosing video stream, then there is only video while no audio.

**Bits Type:** Constant bit rate refers that only image quality will be taken into account instead of bit rate during coding, i.e., at the cost of sacrificing code rate; variable bit rate refers that according to code rate limitation set by user image quality will be decreased sometimes (eg.: violent motion of images), i.e., at the cost of sacrificing resolution rate. Quality factor coefficient range: 4-31.

It is recommended that if the bandwidth is enough, the quality can be set as 4; if the bandwidth is limited, please set bit rate according to actual bandwidth.

**Alarm delay:** it is duration time for voice of alarm output if there is alarm.

## 11.2.2 Motion detection

Motion detection contains two parameters setting: 'Motion detection area' and 'Motion detection time'. Motion detection function can come into effect only when detection area is partitioned in 'Motion detection area', option ☒ Start video move check is selected, and valid period of time is defined.

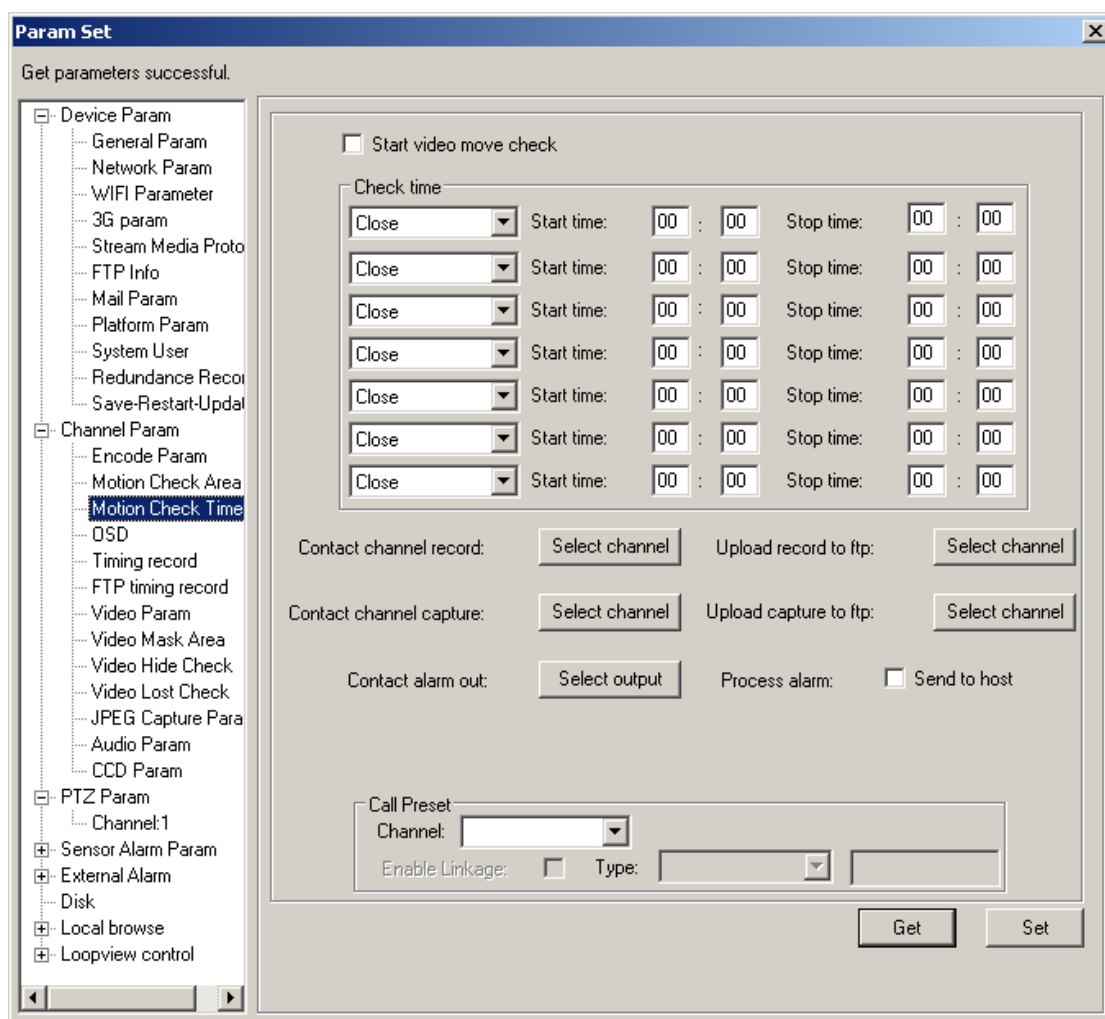
'Motion detection area' can make a plan of detection range on monitoring image. It can be a part or the whole monitoring screen. For different environments, detection sensitivities can be set. 'Motion detection time' can be defined as detection periods individually on seven days in a week.

If you check option ☒ Contact channel record: ☒ , when alarm of motion detection happens in this channel, it can trigger channel recording.

If you check option ☒ Contact channel capture: ☒ , when alarm of motion detection happens in this channel, it can trigger channel capture.

If you check option ☒ Contact alarm out: ☒ OUT1 ☒ OUT2 ☒ OUT3 ☒ OUT4 , when alarm of motion detection happens in this channel, alarm output end of video server will output alarm signal.

Click button  to save setting after modification.

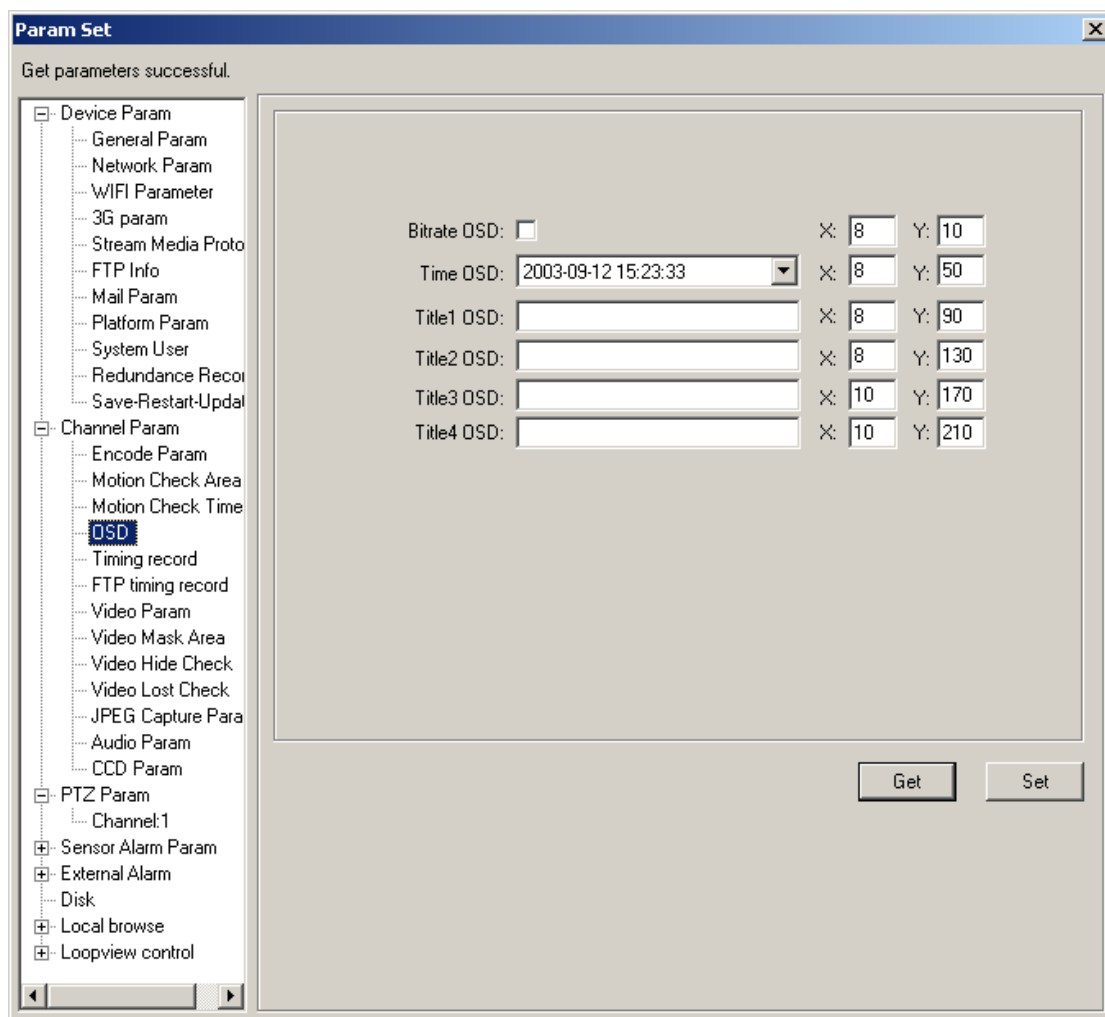


### 11.2.3 OSD Overlap

OSD overlap function is to set the necessary character information, which is displayed on the monitor screen.

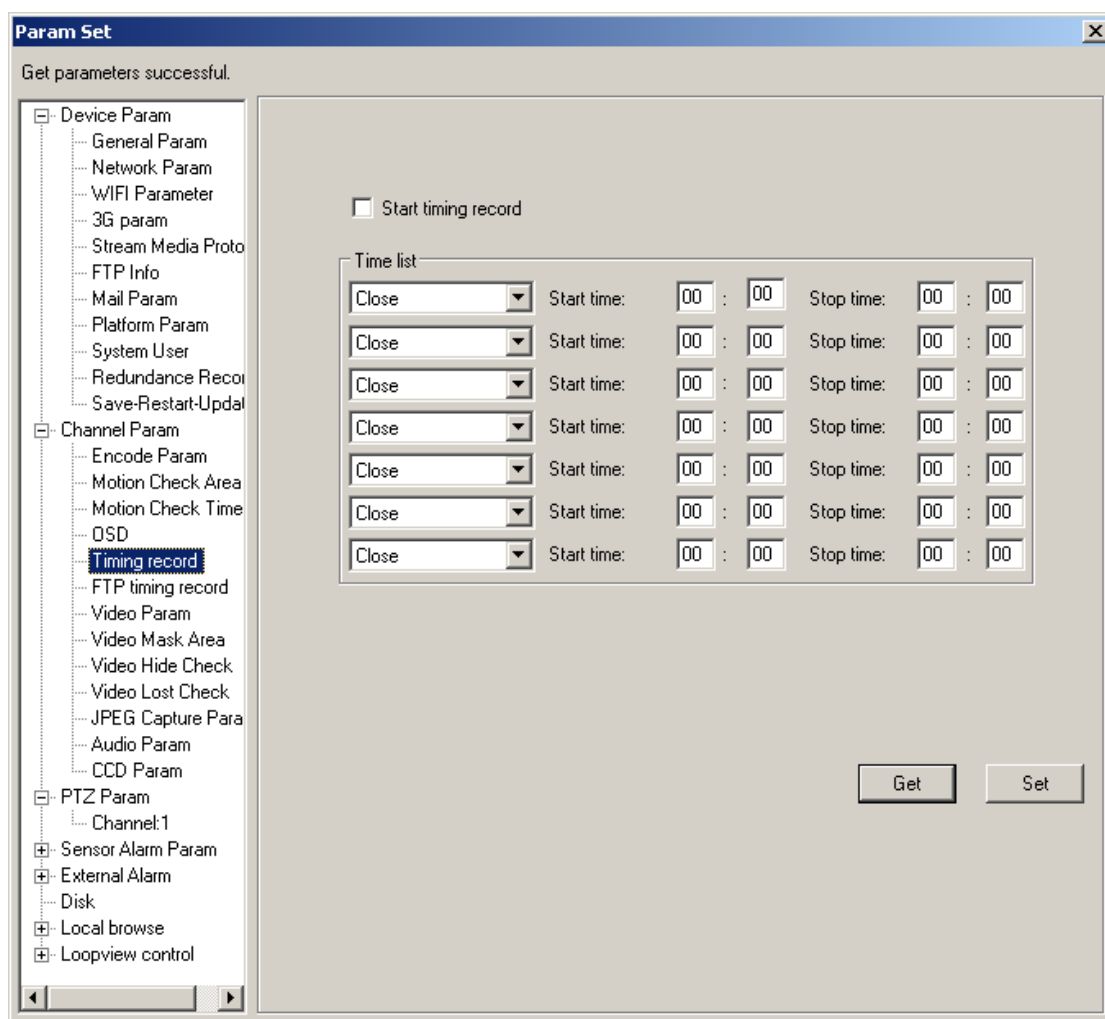
Choose **Bitrate OSD: ☒**, video code rate of current equipment will be displayed dynamically on the monitor screen according to defined coordinate position. Time display: different formats of date and time can be selected to display; can be positioned.

Title: provide four title to be filled, every title can contains 24 English characters; each can be positioned.



## 11.2.4 Equipment Recording Schedule

Simultaneously checking option ☒ Start timed record and setting valid period of time can let the setting of timing recording of video server come into effect.

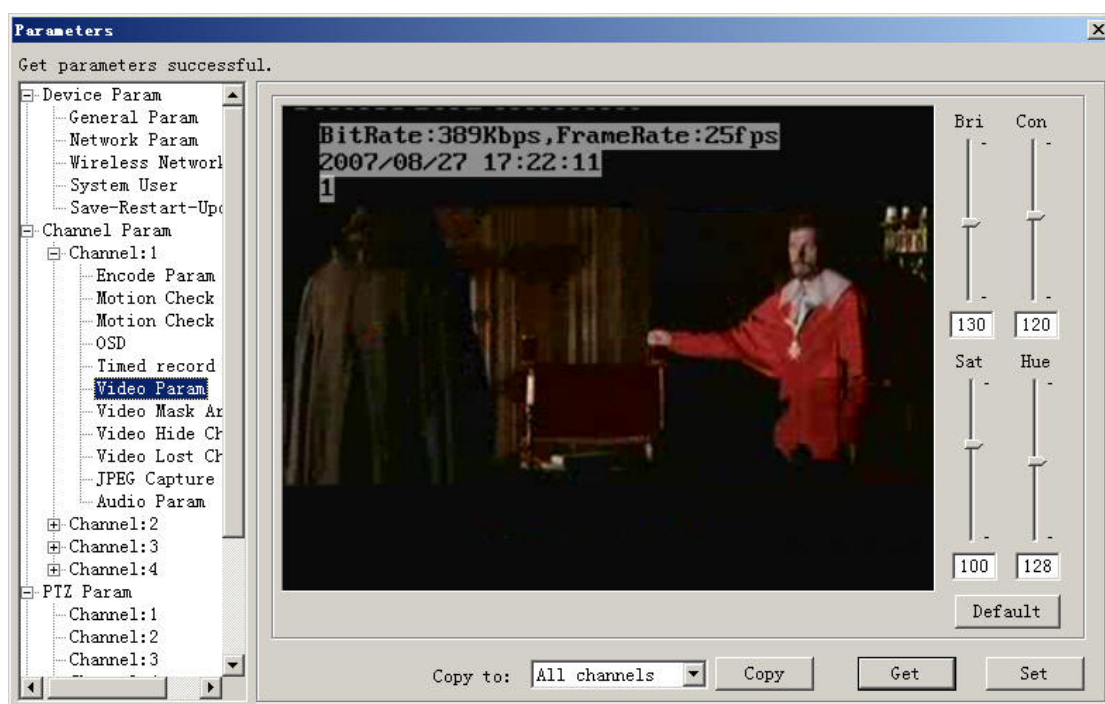


## 11.2.5 Video Parameter Adjustment

The brightness, contrast, saturation and chroma can be adjusted respectively to reach the optimum performance of image color. To return default value,

click **Default** button.



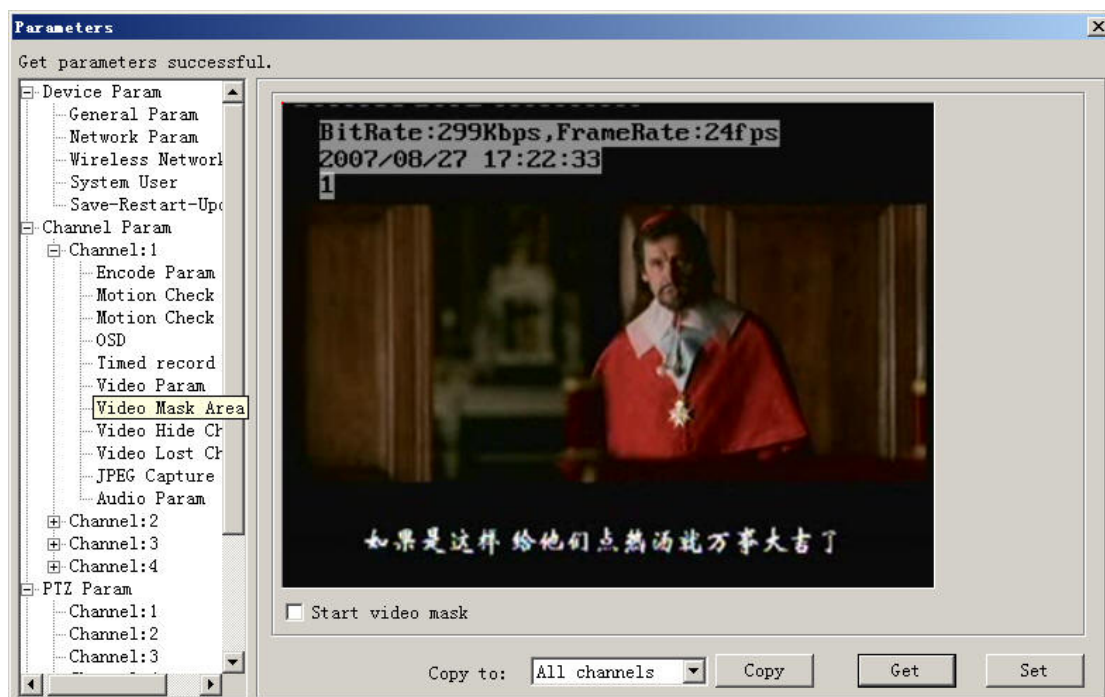


## 11.2.6 Image Area Masking

**Note:** when parameters setting finishes, you can exit only after clicking "Set" button and then click "Get"!

This function could be used when part of area in monitor screen needs to be hid. Click left button of mouse on monitor screen and drag, there will be an area with red frame. The screen of this area will display my contents.

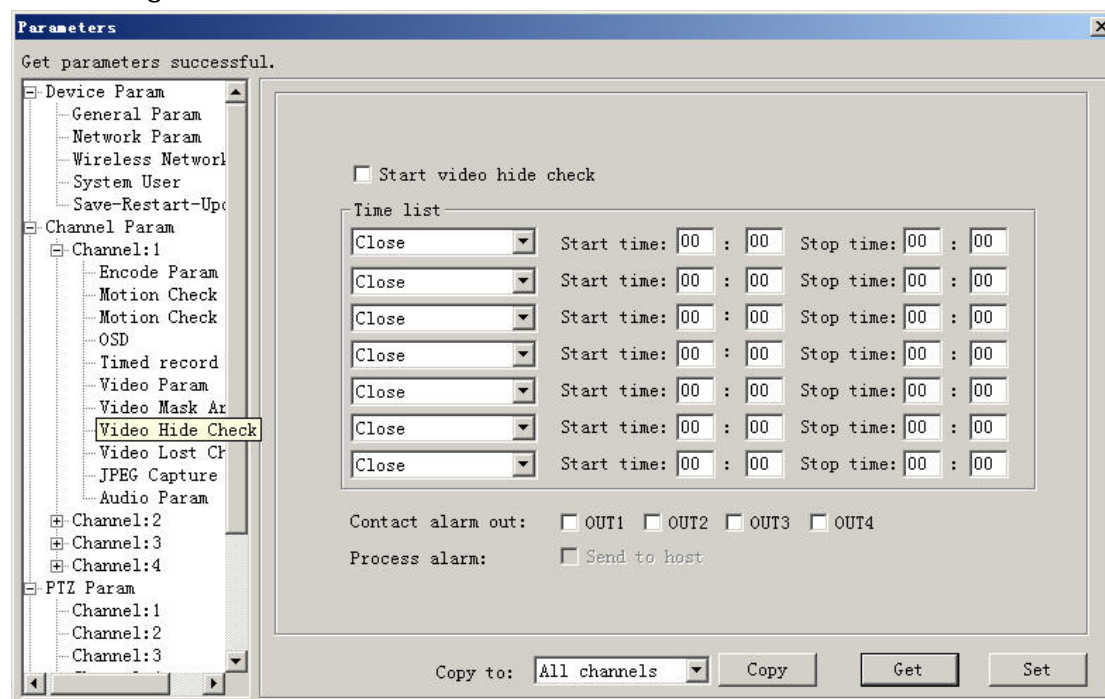
Check ☒ Start video mask to let area masking function come into effect.



## 11.2.7 Camera Covered Detection

Video server alarm could be triggered when the lens of camera is covered by object.

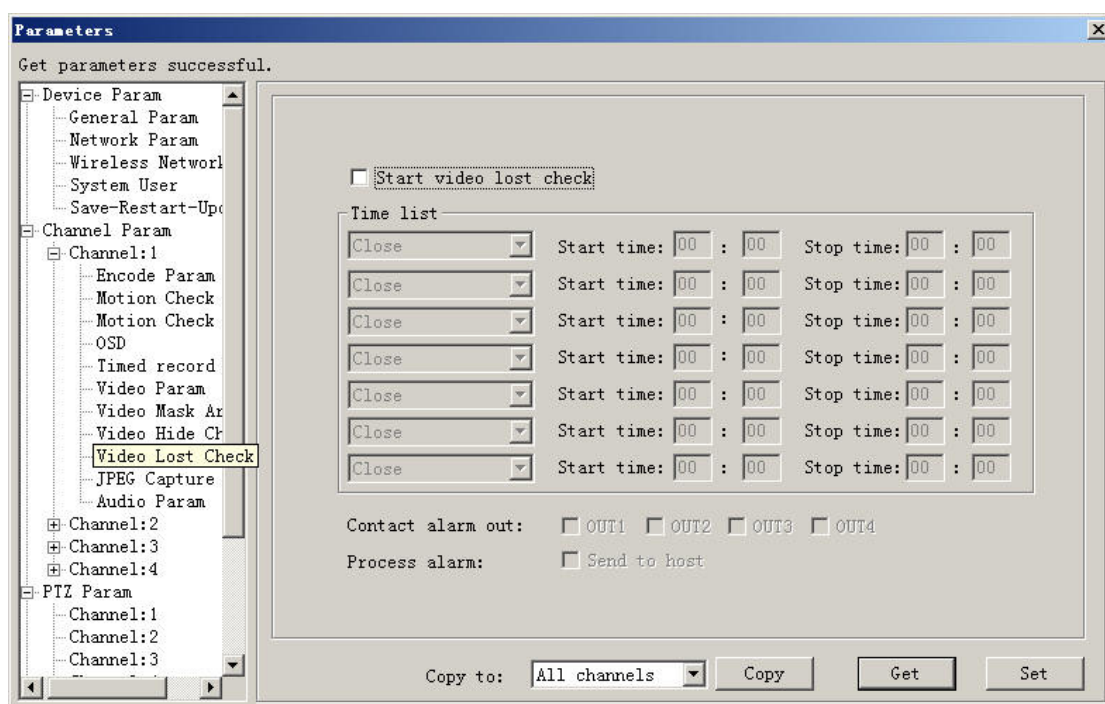
Simultaneously choose ☒ Start video hide check and set valid period of time to let image covered detection of video server come into effect.



## 11.2.8 Video Loss Detection

When video service detects on input video signal from front-end camera, it will generate alarm.

Simultaneously choose ☒ Start video lost check and set valid period of time to let video loss detection of video server come into effect.



## 11.2.9 JPEG Capture Parameter

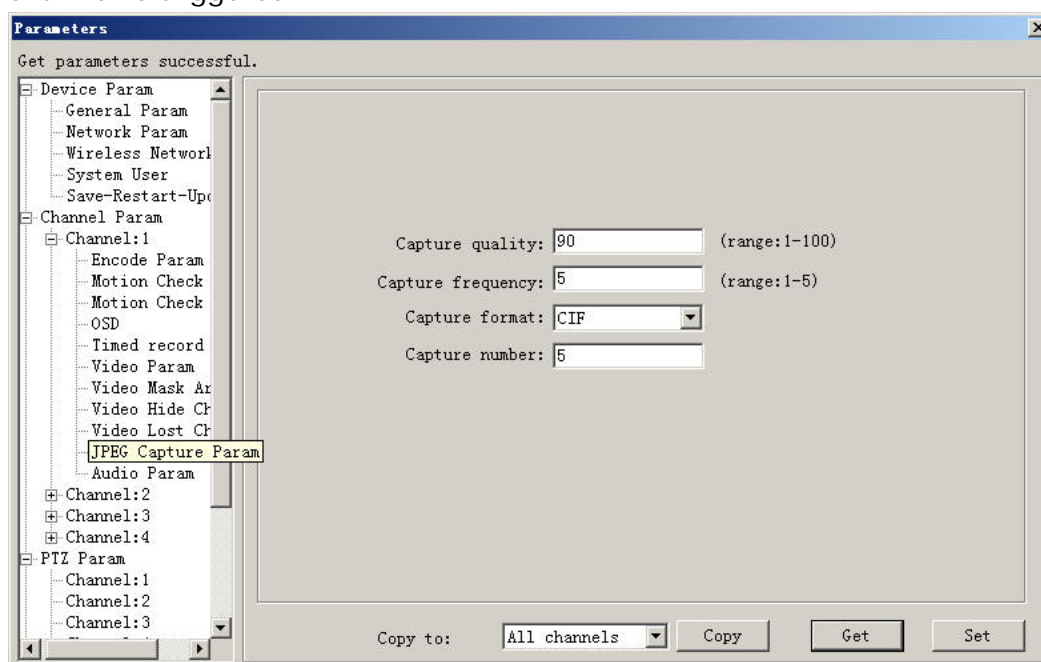
It's the setting for capture function of video server.

Capture quality: input number ranging from 1 to 100 to define the quality of captured image; the bigger the better.

Capture frame rate: the number of captured picture per frame in monitor screen, range from 1 to 5 pages.

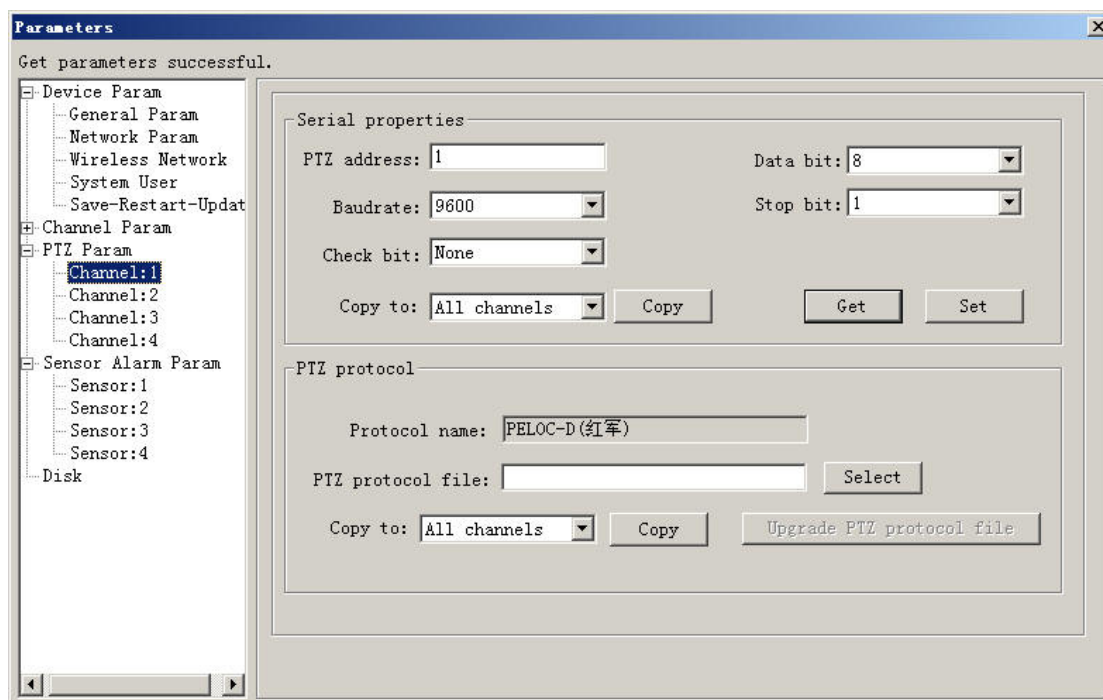
Capture format: can choose 4CIF (D1)/2CIF (Half D1)/CIF three image formats.

Capture total number: the total number of captured picture after capture of channel is triggered.



## 11.3 PTZ Parameter Setting

Set serial-port control parameters of every channel respectively, and upgrade protocol for PTZ. Upgrading files for PTZ will be provided by supplier. See as following picture:

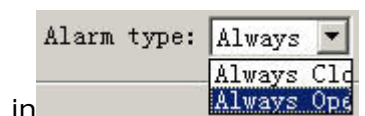


In actual application, video-server-controlled PTZ camera should has parameters as follows: The first, update correct protocol updating files, which are provided by factory or supplier, into video server. The second: bit rate of video server and PTZ decoder should be consistent. The third: The address of PTZ in video server should be consistent with the one of PTZ decoder.

## 11.4 Alarm Probe Parameter Setting

As required you can open/close alarm, set alarm time, linkage recording, and preset sites.

You should know the alarm mode of the probe before setting, select



Simultaneously start check and set valid defense period of time to let the alarm setting of video server probe come into effect.

When probe alarms, it can trigger functions of corresponding channel like recording, capture, alarm output, preset site invoking, etc.

Parameters

Get parameters successful.

- Device Param
  - General Param
  - Network Param
  - Wireless Network
  - System User
  - Save-Restart-Update
- Channel Param
- PTZ Param
  - Channel:1
  - Channel:2
  - Channel:3
  - Channel:4
- Sensor Alarm Param
  - Sensor:1**
  - Sensor:2
  - Sensor:3
  - Sensor:4
- Disk

☐ Start check Alarm type: Always Sensor name: Channel Interval time: 10

Check time

Close	Form: 00 : 00	To: 00 : 00
Close	Form: 00 : 00	To: 00 : 00
Close	Form: 00 : 00	To: 00 : 00
Close	Form: 00 : 00	To: 00 : 00
Close	Form: 00 : 00	To: 00 : 00
Close	Form: 00 : 00	To: 00 : 00

Contact channel record:  
☐ CH1 ☐ CH2 ☐ CH3 ☐ CH4

Contact channel capture:  
☐ CH1 ☐ CH2 ☐ CH3 ☐ CH4

Contact alarm out:  
☐ OUT1 ☐ OUT2 ☐ OUT3 ☐ OUT4

Call preset  
 Channel: Channel ☐ Enable 0

Process alarm:  
☐ Send to host

Copy to: All sensors

## 11.5 Equipment Hard Disk

Be able to check the type, total capacity and total spare space of built-in HD. And be able to format HD. Note, when video server has no build-in or external

HD,   this format option won't be displayed.

Parameters

This device does not support disk.

- Device Param
  - General Param
  - Network Param
  - Wireless Network
  - System User
  - Save-Restart-Update
- Channel Param
- PTZ Param
  - Channel:1
  - Channel:2
  - Channel:3
  - Channel:4
- Sensor Alarm Param
  - Sensor:1
  - Sensor:2
  - Sensor:3
  - Sensor:4
- Disk**

Disk NO.	Disk type	Disk size	Available size	Disk status
Disk 1:	IDE Disk	156.33G	155.34G	Normal
Disk 2:				
Disk 3:				
Disk 4:				
Disk 5:				
Disk 6:				
Disk 7:				
Disk 8:				

Format disk: All disk

## **12. Support**

In case you have problems with the installation and use, please address them to the Technical Assistance Department by e-mail [support@greentel.cn](mailto:support@greentel.cn).

## GREENTEL LIMITED

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